!HDC1&2 Wire Map

!Begin HDC1 map, planes 1-6

slot = 1

!

```
 0, 1, 12    !chamber 1, U plane, card U1(1), wires(1-12).
 1, 1, 11    !chamber 1, U plane, card U1(2), wires(1-12).
 2, 1, 10    !chamber 1, U plane, card U1(3), wires(1-12).
 3, 1, 9     !chamber 1, U plane, card U1(4), wires(1-12).
 4, 1, 8     !chamber 1, U plane, card U1(5), wires(1-12).
 5, 1, 7     !chamber 1, U plane, card U1(6), wires(1-12).
 6, 1, 6     !chamber 1, U plane, card U1(7), wires(1-12).
 7, 1, 5     !chamber 1, U plane, card U1(8), wires(1-12).
 8, 1, 4     !chamber 1, U plane, card U1(9), wires(1-12).
 9, 1, 3     !chamber 1, U plane, card U1(10), wires(1-12).
10,1, 2      !chamber 1, U plane, card U1(11), wires(1-12).
 11, 1, 1     !chamber 1, U plane, card U1(12), wires(1-12).
! 12, 1, empty   !chamber 1, U plane, card U1(13), wires(1-12).
! 13, 1, empty   !chamber 1, U plane, card U1(14), wires(1-12).
! 14, 1, empty   !chamber 1, U plane, card U1(15), wires(1-12).
! 15, 1, empty   !chamber 1, U plane, card U1(16), wires(1-12).
 16, 1 28     !chamber 1, U plane, card U2(1), wires(13-28).
 17, 1, 27    !chamber 1, U plane, card U2(2), wires(13-28).
 18, 1, 26    !chamber 1, U plane, card U2(3), wires(13-28).
 19, 1, 25    !chamber 1, U plane, card U2(4), wires(13-28).
 20, 1, 24    !chamber 1, U plane, card U2(5), wires(13-28).
 21, 1, 23    !chamber 1, U plane, card U2(6), wires(13-28).
 22, 1, 22    !chamber 1, U plane, card U2(7), wires(13-28).
 23, 1, 21    !chamber 1, U plane, card U2(8), wires(13-28).
 24, 1, 20    !chamber 1, U plane, card U2(9), wires(13-28).
 25, 1, 19    !chamber 1, U plane, card U2(10), wires(13-28).
 26, 1, 18    !chamber 1, U plane, card U2(11), wires(13-28).
 27, 1, 17    !chamber 1, U plane, card U2(12), wires(13-28).
 28, 1, 16    !chamber 1, U plane, card U2(13), wires(13-28).
 29, 1, 15    !chamber 1, U plane, card U2(14), wires(13-28).
 30, 1, 14    !chamber 1, U plane, card U2(15), wires(13-28).
 31, 1, 13    !chamber 1, U plane, card U2(16), wires(13-28).
 32, 1, 44    !chamber 1, U plane, card U3(1), wires(29-44).
 33, 1, 43    !chamber 1, U plane, card U3(2), wires(29-44).
 34, 1, 42    !chamber 1, U plane, card U3(3), wires(29-44).
 35, 1, 41    !chamber 1, U plane, card U3(4), wires(29-44).
 36, 1, 40    !chamber 1, U plane, card U3(5), wires(29-44).
 37, 1, 39    !chamber 1, U plane, card U3(6), wires(29-44).
 38, 1, 38    !chamber 1, U plane, card U3(7), wires(29-44).
 39, 1, 37    !chamber 1, U plane, card U3(8), wires(29-44).
 40, 1, 36    !chamber 1, U plane, card U3(9), wires(29-44).
 41, 1, 35    !chamber 1, U plane, card U3(10), wires(29-44).
```

```
42, 1, 34    !chamber 1, U plane, card U3(11), wires(29-44).
43, 1, 33    !chamber 1, U plane, card U3(12), wires(29-44).
44, 1, 32    !chamber 1, U plane, card U3(13), wires(29-44).
45, 1, 31    !chamber 1, U plane, card U3(14), wires(29-44).
46, 1, 30    !chamber 1, U plane, card U3(15), wires(29-44).
47, 1, 29    !chamber 1, U plane, card U3(16), wires(29-44).
48, 1, 45    !chamber 1, U plane, card U4(1), wires(45-60).
49, 1, 46    !chamber 1, U plane, card U4(2), wires(45-60).
50, 1, 47    !chamber 1, U plane, card U4(3), wires(45-60).
51, 1, 48    !chamber 1, U plane, card U4(4), wires(45-60).
52, 1, 49    !chamber 1, U plane, card U4(5), wires(45-60).
53, 1, 50    !chamber 1, U plane, card U4(6), wires(45-60).
54, 1, 51    !chamber 1, U plane, card U4(7), wires(45-60).
55, 1, 52    !chamber 1, U plane, card U4(8), wires(45-60).
56, 1, 53    !chamber 1, U plane, card U4(9), wires(45-60).
57, 1, 54    !chamber 1, U plane, card U4(10), wires(45-60).
58, 1, 55    !chamber 1, U plane, card U4(11), wires(45-60).
59, 1, 56    !chamber 1, U plane, card U4(12), wires(45-60).
60, 1, 57    !chamber 1, U plane, card U4(13), wires(45-60).
61, 1, 58    !chamber 1, U plane, card U4(14), wires(45-60).
62, 1, 59    !chamber 1, U plane, card U4(15), wires(45-60).
63, 1, 60    !chamber 1, U plane, card U4(16), wires(45-60).
64, 1, 61    !chamber 1, U plane, card U5(1), wires(61-76).
65, 1, 62    !chamber 1, U plane, card U5(2), wires(61-76).
66, 1, 63    !chamber 1, U plane, card U5(3), wires(61-76).
67, 1, 64    !chamber 1, U plane, card U5(4), wires(61-76).
68, 1, 65    !chamber 1, U plane, card U5(5), wires(61-76).
69, 1, 66    !chamber 1, U plane, card U5(6), wires(61-76).
70, 1, 67    !chamber 1, U plane, card U5(7), wires(61-76).
71, 1, 68    !chamber 1, U plane, card U5(8), wires(61-76).
72, 1, 69    !chamber 1, U plane, card U5(9), wires(61-76).
73, 1, 70    !chamber 1, U plane, card U5(10), wires(61-76).
74, 1, 71    !chamber 1, U plane, card U5(11), wires(61-76).
75, 1, 72    !chamber 1, U plane, card U5(12), wires(61-76).
76, 1, 73    !chamber 1, U plane, card U5(13), wires(61-76).
77, 1, 74    !chamber 1, U plane, card U5(14), wires(61-76).
78, 1, 75    !chamber 1, U plane, card U5(15), wires(61-76).
79, 1, 76    !chamber 1, U plane, card U5(16), wires(61-76).
80, 1, 77    !chamber 1, U plane, card U6(1), wires(77-87).
81, 1, 78    !chamber 1, U plane, card U6(2), wires(77-87).
82, 1, 79    !chamber 1, U plane, card U6(3), wires(77-87).
83, 1, 80    !chamber 1, U plane, card U6(4), wires(77-87).
84, 1, 81    !chamber 1, U plane, card U6(5), wires(77-87).
85, 1, 82    !chamber 1, U plane, card U6(6), wires(77-87).
86, 1, 83    !chamber 1, U plane, card U6(7), wires(77-87).
87, 1, 84    !chamber 1, U plane, card U6(8), wires(77-87).
```

```
 88, 1, 85      !chamber 1, U plane, card U6(9), wires(77-87).
 89, 1, 86      !chamber 1, U plane, card U6(10), wires(77-87).
 90, 1, 87      !chamber 1, U plane, card U6(11), wires(77-87).
! 91,1, empty   !chamber 1, U plane, card U6(12), wires(77-87).
! 92, 1, empty  !chamber 1, U plane, card U6(13), wires(77-87).
! 93, 1, empty  !chamber 1, U plane, card U6(14), wires(77-87).
! 94, 1, empty  !chamber 1, U plane, card U6(15), wires(77-87).
! 95, 1, empty  !chamber 1, U plane, card U6(16), wires(77-87).
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
slot= 2        !HDC TDC
!
 0, 2, 11         !chamber 1, U' plane, card U'1(1), wires(1-11).
 1, 2, 10       !chamber 1, U' plane, card U'1(2), wires(1-11).
 2, 2, 9        !chamber 1, U' plane, card U'1(3), wires(1-11).
 3, 2, 8        !chamber 1, U' plane, card U'1(4), wires(1-11).
 4, 2, 7        !chamber 1, U' plane, card U'1(5), wires(1-11).
 5, 2, 6        !chamber 1, U' plane, card U'1(6), wires(1-11).
 6, 2, 5        !chamber 1, U' plane, card U'1(7), wires(1-11).
 7, 2, 4        !chamber 1, U' plane, card U'1(8), wires(1-11).
 8, 2, 3        !chamber 1, U' plane, card U'1(9), wires(1-11).
 9, 2, 2        !chamber 1, U' plane, card U'1(10), wires(1-11).
 10,2, 1        !chamber 1, U' plane, card U'1(11), wires(1-11).
! 11, 2, empty  !chamber 1, U' plane, card U'1(12), wires(1-11).
! 12, 2, empty  !chamber 1, U' plane, card U'1(13), wires(1-11).
! 13, 2, empty  !chamber 1, U' plane, card U'1(14), wires(1-11).
! 14, 2, empty  !chamber 1, U' plane, card U'1(15), wires(1-11).
! 15, 2, empty  !chamber 1, U' plane, card U'1(16), wires(1-11).
 16, 2 27       !chamber 1, U' plane, card U'2(1), wires(12-27).
 17, 2, 26      !chamber 1, U' plane, card U'2(2), wires(12-27).
 18, 2, 25      !chamber 1, U' plane, card U'2(3), wires(12-27).
 19, 2, 24      !chamber 1, U' plane, card U'2(4), wires(12-27).
 20, 2, 23      !chamber 1, U' plane, card U'2(5), wires(12-27).
 21, 2, 22      !chamber 1, U' plane, card U'2(6), wires(12-27).
 22, 2, 21      !chamber 1, U' plane, card U'2(7), wires(12-27).
 23, 2, 20      !chamber 1, U' plane, card U'2(8), wires(12-27).
 24, 2, 19      !chamber 1, U' plane, card U'2(9), wires(12-27).
 25, 2, 18      !chamber 1, U' plane, card U'2(10), wires(12-27).
 26, 2, 17      !chamber 1, U' plane, card U'2(11), wires(12-27).
 27, 2, 16      !chamber 1, U' plane, card U'2(12), wires(12-27).
 28, 2, 15      !chamber 1, U' plane, card U'2(13), wires(12-27).
 29, 2, 14      !chamber 1, U' plane, card U'2(14), wires(12-27).
 30, 2, 13      !chamber 1, U' plane, card U'2(15), wires(12-27).
 31, 2, 12      !chamber 1, U' plane, card U'2(16), wires(12-27).
 32, 2, 43      !chamber 1, U' plane, card U'3(1), wires(28-43).
 33, 2, 42      !chamber 1, U' plane, card U'3(2), wires(28-43).
 34, 2, 41      !chamber 1, U' plane, card U'3(3), wires(28-43).
```

```
35, 2, 40     !chamber 1, U' plane, card U'3(4), wires(28-43).
36, 2, 39     !chamber 1, U' plane, card U'3(5), wires(28-43).
37, 2, 38     !chamber 1, U' plane, card U'3(6), wires(28-43).
38, 2, 37     !chamber 1, U' plane, card U'3(7), wires(28-43).
39, 2, 36     !chamber 1, U' plane, card U'3(8), wires(28-43).
40, 2, 35     !chamber 1, U' plane, card U'3(9), wires(28-43).
41, 2, 34     !chamber 1, U' plane, card U'3(10), wires(28-43).
42, 2, 33     !chamber 1, U' plane, card U'3(11), wires(28-43).
43, 2, 32     !chamber 1, U' plane, card U'3(12), wires(28-43).
44, 2, 31     !chamber 1, U' plane, card U'3(13), wires(28-43).
45, 2, 30     !chamber 1, U' plane, card U'3(14), wires(28-43).
46, 2, 29     !chamber 1, U' plane, card U'3(15), wires(28-43).
47, 2, 28     !chamber 1, U' plane, card U'3(16), wires(28-43).
48, 2, 44     !chamber 1, U' plane, card U'4(1), wires(44-59).
49, 2, 45     !chamber 1, U' plane, card U'4(2), wires(44-59).
50, 2, 46     !chamber 1, U' plane, card U'4(3), wires(44-59).
51, 2, 47     !chamber 1, U' plane, card U'4(4), wires(44-59).
52, 2, 48     !chamber 1, U' plane, card U'4(5), wires(44-59).
53, 2, 49     !chamber 1, U' plane, card U'4(6), wires(44-59).
54, 2, 50     !chamber 1, U' plane, card U'4(7), wires(44-59).
55, 2, 51     !chamber 1, U' plane, card U'4(8), wires(44-59).
56, 2, 52     !chamber 1, U' plane, card U'4(9), wires(44-59).
57, 2, 53     !chamber 1, U' plane, card U'4(10), wires(44-59).
58, 2, 54     !chamber 1, U' plane, card U'4(11), wires(44-59).
59, 2, 55     !chamber 1, U' plane, card U'4(12), wires(44-59).
60, 2, 56     !chamber 1, U' plane, card U'4(13), wires(44-59).
61, 2, 57     !chamber 1, U' plane, card U'4(14), wires(44-59).
62, 2, 58     !chamber 1, U' plane, card U'4(15), wires(44-59).
63, 2, 59     !chamber 1, U' plane, card U'4(16), wires(44-59).
64, 2, 60     !chamber 1, U' plane, card U'5(1), wires(60-75).
65, 2, 61     !chamber 1, U' plane, card U'5(2), wires(60-75).
66, 2, 62     !chamber 1, U' plane, card U'5(3), wires(60-75).
67, 2, 63     !chamber 1, U' plane, card U'5(4), wires(60-75).
68, 2, 64     !chamber 1, U' plane, card U'5(5), wires(60-75).
69, 2, 65     !chamber 1, U' plane, card U'5(6), wires(60-75).
70, 2, 66     !chamber 1, U' plane, card U'5(7), wires(60-75).
71, 2, 67     !chamber 1, U' plane, card U'5(8), wires(60-75).
72, 2, 68     !chamber 1, U' plane, card U'5(9), wires(60-75).
73, 2, 69     !chamber 1, U' plane, card U'5(10), wires(60-75).
74, 2, 70     !chamber 1, U' plane, card U'5(11), wires(60-75).
75, 2, 71     !chamber 1, U' plane, card U'5(12), wires(60-75).
76, 2, 72     !chamber 1, U' plane, card U'5(13), wires(60-75).
77, 2, 73     !chamber 1, U' plane, card U'5(14), wires(60-75).
78, 2, 74     !chamber 1, U' plane, card U'5(15), wires(60-75).
79, 2, 75     !chamber 1, U' plane, card U'5(16), wires(60-75).
80, 2, 76     !chamber 1, U' plane, card U'6(1), wires(76-87).
```

81, 2, 77   !chamber 1, U' plane, card U'6(2), wires(76-87).
82, 2, 78   !chamber 1, U' plane, card U'6(3), wires(76-87).
83, 2, 79   !chamber 1, U' plane, card U'6(4), wires(76-87).
84, 2, 80   !chamber 1, U' plane, card U'6(5), wires(76-87).
85, 2, 81   !chamber 1, U' plane, card U'6(6), wires(76-87).
86, 2, 82   !chamber 1, U' plane, card U'6(7), wires(76-87).
87, 2, 83   !chamber 1, U' plane, card U'6(8), wires(76-87).
88, 2, 84   !chamber 1, U' plane, card U'6(9), wires(76-87).
89, 2, 85   !chamber 1, U' plane, card U'6(10), wires(76-87).
90, 2, 86   !chamber 1, U' plane, card U'6(11), wires(76-87).
91, 2, 87   !chamber 1, U' plane, card U'6(12), wires(76-87).
! 92, 2, empty   !chamber 1, U' plane, card U'6(13), wires(76-87).
! 93, 2, empty   !chamber 1, U' plane, card U'6(14), wires(76-87).
! 94, 2, empty   !chamber 1, U' plane, card U'6(15), wires(76-87).
! 95, 2, empty   !chamber 1, U' plane, card U'6(16), wires(76-87).
!!!
slot= 4   !HDC TDC
!
!0, 3, empty   !chamber 1, X plane, card X1(1), wires(1-13).
!1, 3, empty   !chamber 1, X plane, card X1(2), wires(1-13).
!2, 3, empty   !chamber 1, X plane, card X1(3), wires(1-13).
 3, 3, 1 !chamber 1, X plane, card X1(4), wires(1-13).
 4, 3, 2 !chamber 1, X plane, card X1(5), wires(1-13).
 5, 3, 3 !chamber 1, X plane, card X1(6), wires(1-13).
 6, 3, 4 !chamber 1, X plane, card X1(7), wires(1-13).
 7, 3, 5 !chamber 1, X plane, card X1(8), wires(1-13).
 8, 3, 6 !chamber 1, X plane, card X1(9), wires(1-13).
 9, 3, 7 !chamber 1, X plane, card X1(10), wires(1-13).
 10, 3, 8   !chamber 1, X plane, card X1(11), wires(1-13).
 11, 3, 9   !chamber 1, X plane, card X1(12), wires(1-13).
 12, 3, 10   !chamber 1, X plane, card X1(13), wires(1-13).
 13, 3, 11   !chamber 1, X plane, card X1(14), wires(1-13).
 14, 3, 12   !chamber 1, X plane, card X1(15), wires(1-13).
 15, 3, 13   !chamber 1, X plane, card X1(16), wires(1-13).
 16, 3, 14   !chamber 1, X plane, card X2(1), wires(14-29).
 17, 3, 15   !chamber 1, X plane, card X2(2), wires(14-29).
 18, 3, 16   !chamber 1, X plane, card X2(3), wires(14-29).
 19, 3, 17   !chamber 1, X plane, card X2(4), wires(14-29).
 20, 3, 18   !chamber 1, X plane, card X2(5), wires(14-29).
 21, 3, 19   !chamber 1, X plane, card X2(6), wires(14-29).
 22, 3, 20   !chamber 1, X plane, card X2(7), wires(14-29).
 23, 3, 21   !chamber 1, X plane, card X2(8), wires(14-29).
 24, 3, 22   !chamber 1, X plane, card X2(9), wires(14-29).
 25, 3, 23   !chamber 1, X plane, card X2(10), wires(14-29).
 26, 3, 24   !chamber 1, X plane, card X2(11), wires(14-29).
 27, 3, 25   !chamber 1, X plane, card X2(12), wires(14-29).

28, 3, 26   !chamber 1, X plane, card X2(13), wires(14-29).
29, 3, 27   !chamber 1, X plane, card X2(14), wires(14-29).
30, 3, 28   !chamber 1, X plane, card X2(15), wires(14-29).
31, 3, 29   !chamber 1, X plane, card X2(16), wires(14-29).
32, 3, 45   !chamber 1, X plane, card X3(1), wires(30-45).
33, 3, 44   !chamber 1, X plane, card X3(2), wires(30-45).
34, 3, 43   !chamber 1, X plane, card X3(3), wires(30-45).
35, 3, 42   !chamber 1, X plane, card X3(4), wires(30-45).
36, 3, 41   !chamber 1, X plane, card X3(5), wires(30-45).
37, 3, 40   !chamber 1, X plane, card X3(6), wires(30-45).
38, 3, 39   !chamber 1, X plane, card X3(7), wires(30-45).
39, 3, 38   !chamber 1, X plane, card X3(8), wires(30-45).
40, 3, 37   !chamber 1, X plane, card X3(9), wires(30-45).
41, 3, 36   !chamber 1, X plane, card X3(10), wires(30-45).
42, 3, 35   !chamber 1, X plane, card X3(11), wires(30-45).
43, 3, 34   !chamber 1, X plane, card X3(12), wires(30-45).
44, 3, 33   !chamber 1, X plane, card X3(13), wires(30-45).
45, 3, 32   !chamber 1, X plane, card X3(14), wires(30-45).
46, 3, 31   !chamber 1, X plane, card X3(15), wires(30-45).
47, 3, 30   !chamber 1, X plane, card X3(16), wires(30-45).
48, 3, 46   !chamber 1, X plane, card X4(1), wires(46-61).
49, 3, 47   !chamber 1, X plane, card X4(2), wires(46-61).
50, 3, 48   !chamber 1, X plane, card X4(3), wires(46-61).
51, 3, 49   !chamber 1, X plane, card X4(4), wires(46-61).
52, 3, 50   !chamber 1, X plane, card X4(5), wires(46-61).
53, 3, 51   !chamber 1, X plane, card X4(6), wires(46-61).
54, 3, 52   !chamber 1, X plane, card X4(7), wires(46-61).
55, 3, 53   !chamber 1, X plane, card X4(8), wires(46-61).
56, 3, 54   !chamber 1, X plane, card X4(9), wires(46-61).
57, 3, 55   !chamber 1, X plane, card X4(10), wires(46-61).
58, 3, 56   !chamber 1, X plane, card X4(11), wires(46-61).
59, 3, 57   !chamber 1, X plane, card X4(12), wires(46-61).
60, 3, 58   !chamber 1, X plane, card X4(13), wires(46-61).
61, 3, 59   !chamber 1, X plane, card X4(14), wires(46-61).
62, 3, 60   !chamber 1, X plane, card X4(15), wires(46-61).
63, 3, 61   !chamber 1, X plane, card X4(16), wires(46-61).
64, 3, 77   !chamber 1, X plane, card X5(1), wires(62-77).
65, 3, 76   !chamber 1, X plane, card X5(2), wires(62-77).
66, 3, 75   !chamber 1, X plane, card X5(3), wires(62-77).
67, 3, 74   !chamber 1, X plane, card X5(4), wires(62-77).
68, 3, 73   !chamber 1, X plane, card X5(5), wires(62-77).
69, 3, 72   !chamber 1, X plane, card X5(6), wires(62-77).
70, 3, 71   !chamber 1, X plane, card X5(7), wires(62-77).
71, 3, 70   !chamber 1, X plane, card X5(8), wires(62-77).
72, 3, 69   !chamber 1, X plane, card X5(9), wires(62-77).
73, 3, 68   !chamber 1, X plane, card X5(10), wires(62-77).

74, 3, 67   !chamber 1, X plane, card X5(11), wires(62-77).
75, 3, 66   !chamber 1, X plane, card X5(12), wires(62-77).
76, 3, 65   !chamber 1, X plane, card X5(13), wires(62-77).
77, 3, 64   !chamber 1, X plane, card X5(14), wires(62-77).
78, 3, 63   !chamber 1, X plane, card X5(15), wires(62-77).
79, 3, 62   !chamber 1, X plane, card X5(16), wires(62-77).
80, 3, 78   !chamber 1, X plane, card X6(1), wires(78-93).
81, 3, 79   !chamber 1, X plane, card X6(2), wires(78-93).
82, 3, 80   !chamber 1, X plane, card X6(3), wires(78-93).
83, 3, 81   !chamber 1, X plane, card X6(4), wires(78-93).
84, 3, 82   !chamber 1, X plane, card X6(5), wires(78-93).
85, 3, 83   !chamber 1, X plane, card X6(6), wires(78-93).
86, 3, 84   !chamber 1, X plane, card X6(7), wires(78-93).
87, 3, 85   !chamber 1, X plane, card X6(8), wires(78-93).
88, 3, 86   !chamber 1, X plane, card X6(9), wires(78-93).
89, 3, 87   !chamber 1, X plane, card X6(10), wires(78-93).
90, 3, 88   !chamber 1, X plane, card X6(11), wires(78-93).
91, 3, 89   !chamber 1, X plane, card X6(12), wires(78-93).
92, 3, 90   !chamber 1, X plane, card X6(13), wires(78-93).
93, 3, 91   !chamber 1, X plane, card X6(14), wires(78-93).
94, 3, 92   !chamber 1, X plane, card X6(15), wires(78-93).
95, 3, 93   !chamber 1, X plane, card X6(16), wires(78-93).
!!!
slot = 5
!
 0, 3, 109   !chamber 1, X plane, card X7(1), wires(94-109).
 1, 3, 108   !chamber 1, X plane, card X7(2), wires(94-109).
 2, 3, 107   !chamber 1, X plane, card X7(3), wires(94-109).
 3, 3, 106   !chamber 1, X plane, card X7(4), wires(94-109).
 4, 3, 105   !chamber 1, X plane, card X7(5), wires(94-109).
 5, 3, 104   !chamber 1, X plane, card X7(6), wires(94-109).
 6, 3, 103   !chamber 1, X plane, card X7(7), wires(94-109).
 7, 3, 102   !chamber 1, X plane, card X7(8), wires(94-109).
 8, 3, 101   !chamber 1, X plane, card X7(9), wires(94-109).
 9, 3, 100   !chamber 1, X plane, card X7(10), wires(94-109).
10,3, 99   !chamber 1, X plane, card X7(11), wires(94-109).
11, 3, 98   !chamber 1, X plane, card X7(12), wires(94-109).
12, 3, 97   !chamber 1, X plane, card X7(13), wires(94-109).
13, 3, 96   !chamber 1, X plane, card X7(14), wires(94-109).
14, 3, 95   !chamber 1, X plane, card X7(15), wires(94-109).
15, 3, 94   !chamber 1, X plane, card X7(16), wires(94-109).
!16, 3, empty !chamber 1, X plane, card X8(1), wires(110-122).
!17, 3, empty !chamber 1, X plane, card X8(2), wires(110-122).
!18, 3, empty !chamber 1, X plane, card X8(3), wires(110-122).
19, 3, 122   !chamber 1, X plane, card X8(4), wires(110-122).
20, 3, 121   !chamber 1, X plane, card X8(5), wires(110-122).

```
21, 3, 120    !chamber 1, X plane, card X8(6), wires(110-122).
22, 3, 119    !chamber 1, X plane, card X8(7), wires(110-122).
23, 3, 118    !chamber 1, X plane, card X8(8), wires(110-122).
24, 3, 117    !chamber 1, X plane, card X8(9), wires(110-122).
25, 3, 116    !chamber 1, X plane, card X8(10), wires(110-122).
26, 3, 115    !chamber 1, X plane, card X8(11), wires(110-122).
27, 3, 114    !chamber 1, X plane, card X8(12), wires(110-122).
28, 3, 113    !chamber 1, X plane, card X8(13), wires(110-122).
29, 3, 112    !chamber 1, X plane, card X8(14), wires(110-122).
30, 3, 111    !chamber 1, X plane, card X8(15), wires(110-122).
31, 3, 110    !chamber 1, X plane, card X8(16), wires(110-122).
!32, 4, empty !chamber 1, X' plane, card X'1(1), wires(1-13).
!33, 4, empty !chamber 1, X' plane, card X'1(2), wires(1-13).
!34, 4, empty !chamber 1, X' plane, card X'1(3), wires(1-13).
35, 4, 1      !chamber 1, X' plane, card X'1(4), wires(1-13).
36, 4, 2      !chamber 1, X' plane, card X'1(5), wires(1-13).
37, 4, 3      !chamber 1, X' plane, card X'1(6), wires(1-13).
38, 4, 4      !chamber 1, X' plane, card X'1(7), wires(1-13).
39, 4, 5      !chamber 1, X' plane, card X'1(8), wires(1-13).
40, 4, 6      !chamber 1, X' plane, card X'1(9), wires(1-13).
41, 4, 7      !chamber 1, X' plane, card X'1(10), wires(1-13).
42, 4, 8      !chamber 1, X' plane, card X'1(11), wires(1-13).
43, 4, 9      !chamber 1, X' plane, card X'1(12), wires(1-13).
44, 4, 10     !chamber 1, X' plane, card X'1(13), wires(1-13).
45, 4, 11     !chamber 1, X' plane, card X'1(14), wires(1-13).
46, 4, 12     !chamber 1, X' plane, card X'1(15), wires(1-13).
47, 4, 13     !chamber 1, X' plane, card X'1(16), wires(1-13).
48, 4, 14     !chamber 1, X' plane, card X'2(1), wires(14-29).
49, 4, 15     !chamber 1, X' plane, card X'2(2), wires(14-29).
50, 4, 16     !chamber 1, X' plane, card X'2(3), wires(14-29).
51, 4, 17     !chamber 1, X' plane, card X'2(4), wires(14-29).
52, 4, 18     !chamber 1, X' plane, card X'2(5), wires(14-29).
53, 4, 19     !chamber 1, X' plane, card X'2(6), wires(14-29).
54, 4, 20     !chamber 1, X' plane, card X'2(7), wires(14-29).
55, 4, 21     !chamber 1, X' plane, card X'2(8), wires(14-29).
56, 4, 22     !chamber 1, X' plane, card X'2(9), wires(14-29).
57, 4, 23     !chamber 1, X' plane, card X'2(10), wires(14-29).
58, 4, 24     !chamber 1, X' plane, card X'2(11), wires(14-29).
59, 4, 25     !chamber 1, X' plane, card X'2(12), wires(14-29).
60, 4, 26     !chamber 1, X' plane, card X'2(13), wires(14-29).
61, 4, 27     !chamber 1, X' plane, card X'2(14), wires(14-29).
62, 4, 28     !chamber 1, X' plane, card X'2(15), wires(14-29).
63, 4, 29     !chamber 1, X' plane, card X'2(16), wires(14-29).
64, 4, 45     !chamber 1, X' plane, card X'3(1), wires(30-45).
65, 4, 44     !chamber 1, X' plane, card X'3(2), wires(30-45).
66, 4, 43     !chamber 1, X' plane, card X'3(3), wires(30-45).
```

```
67, 4, 42        !chamber 1, X' plane, card X'3(4), wires(30-45).
68, 4, 41        !chamber 1, X' plane, card X'3(5), wires(30-45).
69, 4, 40        !chamber 1, X' plane, card X'3(6), wires(30-45).
70, 4, 39        !chamber 1, X' plane, card X'3(7), wires(30-45).
71, 4, 38        !chamber 1, X' plane, card X'3(8), wires(30-45).
72, 4, 37        !chamber 1, X' plane, card X'3(9), wires(30-45).
73, 4, 36        !chamber 1, X' plane, card X'3(10), wires(30-45).
74, 4, 35        !chamber 1, X' plane, card X'3(11), wires(30-45).
75, 4, 34        !chamber 1, X' plane, card X'3(12), wires(30-45).
76, 4, 33        !chamber 1, X' plane, card X'3(13), wires(30-45).
77, 4, 32        !chamber 1, X' plane, card X'3(14), wires(30-45).
78, 4, 31        !chamber 1, X' plane, card X'3(15), wires(30-45).
79, 4, 30        !chamber 1, X' plane, card X'3(16), wires(30-45).
80, 4, 46        !chamber 1, X' plane, card X'4(1), wires(46-61).
81, 4, 47        !chamber 1, X' plane, card X'4(2), wires(46-61).
82, 4, 48        !chamber 1, X' plane, card X'4(3), wires(46-61).
83, 4, 49        !chamber 1, X' plane, card X'4(4), wires(46-61).
84, 4, 50        !chamber 1, X' plane, card X'4(5), wires(46-61).
85, 4, 51        !chamber 1, X' plane, card X'4(6), wires(46-61).
86, 4, 52        !chamber 1, X' plane, card X'4(7), wires(46-61).
87, 4, 53        !chamber 1, X' plane, card X'4(8), wires(46-61).
88, 4, 54        !chamber 1, X' plane, card X'4(9), wires(46-61).
89, 4, 55        !chamber 1, X' plane, card X'4(10), wires(46-61).
90, 4, 56        !chamber 1, X' plane, card X'4(11), wires(46-61).
91, 4, 57        !chamber 1, X' plane, card X'4(12), wires(46-61).
92, 4, 58        !chamber 1, X' plane, card X'4(13), wires(46-61).
93, 4, 59        !chamber 1, X' plane, card X'4(14), wires(46-61).
94, 4, 60        !chamber 1, X' plane, card X'4(15), wires(46-61).
95, 4, 61        !chamber 1, X' plane, card X'4(16), wires(46-61).
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
slot = 6
!
0, 4, 77         !chamber 1, X' plane, card X'5(1), wires(62-77).
1, 4, 76         !chamber 1, X' plane, card X'5(2), wires(62-77).
2, 4, 75         !chamber 1, X' plane, card X'5(3), wires(62-77).
3, 4, 74         !chamber 1, X' plane, card X'5(4), wires(62-77).
4, 4, 73         !chamber 1, X' plane, card X'5(5), wires(62-77).
5, 4, 72         !chamber 1, X' plane, card X'5(6), wires(62-77).
6, 4, 71         !chamber 1, X' plane, card X'5(7), wires(62-77).
7, 4, 70         !chamber 1, X' plane, card X'5(8), wires(62-77).
8, 4, 69         !chamber 1, X' plane, card X'5(9), wires(62-77).
9, 4, 68         !chamber 1, X' plane, card X'5(10), wires(62-77).
10, 4, 67        !chamber 1, X' plane, card X'5(11), wires(62-77).
11, 4, 66        !chamber 1, X' plane, card X'5(12), wires(62-77).
12, 4, 65        !chamber 1, X' plane, card X'5(13), wires(62-77).
13, 4, 64        !chamber 1, X' plane, card X'5(14), wires(62-77).
```

```
14, 4, 63        !chamber 1, X' plane, card X'5(15), wires(62-77).
15, 4, 62        !chamber 1, X' plane, card X'5(16), wires(62-77).
16, 4, 78        !chamber 1, X' plane, card X'6(1), wires(78-93).
17, 4, 79        !chamber 1, X' plane, card X'6(2), wires(78-93).
18, 4, 80        !chamber 1, X' plane, card X'6(3), wires(78-93).
19, 4, 81        !chamber 1, X' plane, card X'6(4), wires(78-93).
20, 4, 82        !chamber 1, X' plane, card X'6(5), wires(78-93).
21, 4, 83        !chamber 1, X' plane, card X'6(6), wires(78-93).
22, 4, 84        !chamber 1, X' plane, card X'6(7), wires(78-93).
23, 4, 85        !chamber 1, X' plane, card X'6(8), wires(78-93).
24, 4, 86        !chamber 1, X' plane, card X'6(9), wires(78-93).
25, 4, 87        !chamber 1, X' plane, card X'6(10), wires(78-93).
26, 4, 88        !chamber 1, X' plane, card X'6(11), wires(78-93).
27, 4, 89        !chamber 1, X' plane, card X'6(12), wires(78-93).
28, 4, 90        !chamber 1, X' plane, card X'6(13), wires(78-93).
29, 4, 91        !chamber 1, X' plane, card X'6(14), wires(78-93).
30, 4, 92        !chamber 1, X' plane, card X'6(15), wires(78-93).
31, 4, 93        !chamber 1, X' plane, card X'6(16), wires(78-93).
32, 4, 109       !chamber 1, X' plane, card X'7(1), wires(94-109).
33, 4, 108       !chamber 1, X' plane, card X'7(2), wires(94-109).
34, 4, 107       !chamber 1, X' plane, card X'7(3), wires(94-109).
35, 4, 106       !chamber 1, X' plane, card X'7(4), wires(94-109).
36, 4, 105       !chamber 1, X' plane, card X'7(5), wires(94-109).
37, 4, 104       !chamber 1, X' plane, card X'7(6), wires(94-109).
38, 4, 103       !chamber 1, X' plane, card X'7(7), wires(94-109).
39, 4, 102       !chamber 1, X' plane, card X'7(8), wires(94-109).
40, 4, 101       !chamber 1, X' plane, card X'7(9), wires(94-109).
41, 4, 100       !chamber 1, X' plane, card X'7(10), wires(94-109).
42, 4, 99        !chamber 1, X' plane, card X'7(11), wires(94-109).
43, 4, 98        !chamber 1, X' plane, card X'7(12), wires(94-109).
44, 4, 97        !chamber 1, X' plane, card X'7(13), wires(94-109).
45, 4, 96        !chamber 1, X' plane, card X'7(14), wires(94-109).
46, 4, 95        !chamber 1, X' plane, card X'7(15), wires(94-109).
47, 4, 94        !chamber 1, X' plane, card X'7(16), wires(94-109).
! 48, 4, empty !chamber 1, X' plane, card X'8(1), wires(110-122).
!49, 4, empty !chamber 1, X' plane, card X'8(2), wires(110-122).
!50, 4, empty !chamber 1, X' plane, card X'8(3), wires(110-122).
51, 4, 122       !chamber 1, X' plane, card X'8(4), wires(110-122).
52, 4, 121       !chamber 1, X' plane, card X'8(5), wires(110-122).
53, 4, 120       !chamber 1, X' plane, card X'8(6), wires(110-122).
54, 4, 119       !chamber 1, X' plane, card X'8(7), wires(110-122).
55, 4, 118       !chamber 1, X' plane, card X'8(8), wires(110-122).
56, 4, 117       !chamber 1, X' plane, card X'8(9), wires(110-122).
57, 4, 116       !chamber 1, X' plane, card X'8(10), wires(110-122).
58, 4, 115       !chamber 1, X' plane, card X'8(11), wires(110-122).
59, 4, 114       !chamber 1, X' plane, card X'8(12), wires(110-122).
```

```
60, 4, 113      !chamber 1, X' plane, card X'8(13), wires(110-122).
61, 4, 112      !chamber 1, X' plane, card X'8(14), wires(110-122).
62, 4, 111      !chamber 1, X' plane, card X'8(15), wires(110-122).
63, 4, 110      !chamber 1, X' plane, card X'8(16), wires(110-122).
64, 5, 12       !chamber 1, V plane, card V1(1), wires(1-12).
65, 5, 11     !chamber 1, V plane, card V1(2), wires(1-12).
66, 5, 10      !chamber 1, V plane, card V1(3), wires(1-12).
67, 5, 9       !chamber 1, V plane, card V1(4), wires(1-12).
68, 5 , 8       !chamber 1, V plane, card V1(5), wires(1-12).
69, 5, 7       !chamber 1, V plane, card V1(6), wires(1-12).
70, 5, 6       !chamber 1, V plane, card V1(7), wires(1-12).
71, 5, 5       !chamber 1, V plane, card V1(8), wires(1-12).
72, 5, 4       !chamber 1, V plane, card V1(9), wires(1-12).
73, 5, 3       !chamber 1, V plane, card V1(10), wires(1-12).
74, 5, 2      !chamber 1, V plane, card V1(11), wires(1-12).
75, 5, 1      !chamber 1, V plane, card V1(12), wires(1-12).
! 76, 5, empty   !chamber 1, V plane, card V1(13), wires(1-12).
! 77, 5, empty   !chamber 1, V plane, card V1(14), wires(1-12).
! 78, 5, empty   !chamber 1, V plane, card V1(15), wires(1-12).
! 79, 5, empty   !chamber 1, V plane, card V1(16), wires(1-12).
80, 5, 28     !chamber 1, V plane, card V2(1), wires(13-28).
81, 5, 27     !chamber 1, V plane, card V2(2), wires(13-28).
82, 5, 26     !chamber 1, V plane, card V2(3), wires(13-28).
83, 5, 25     !chamber 1, V plane, card V2(4), wires(13-28).
84, 5, 24     !chamber 1, V plane, card V2(5), wires(13-28).
85, 5, 23     !chamber 1, V plane, card V2(6), wires(13-28).
86, 5, 22     !chamber 1, V plane, card V2(7), wires(13-28).
87, 5, 21     !chamber 1, V plane, card V2(8), wires(13-28).
88, 5, 20     !chamber 1, V plane, card V2(9), wires(13-28).
89, 5, 19     !chamber 1, V plane, card V2(10), wires(13-28).
90, 5, 18     !chamber 1, V plane, card V2(11), wires(13-28).
91, 5, 17     !chamber 1, V plane, card V2(12), wires(13-28).
92, 5, 16     !chamber 1, V plane, card V2(13), wires(13-28).
93, 5, 15     !chamber 1, V plane, card V2(14), wires(13-28).
94, 5, 14     !chamber 1, V plane, card V2(15), wires(13-28).
95, 5, 13     !chamber 1, V plane, card V2(16), wires(13-28).

slot =8

0, 5, 44     !chamber 1, V plane, card V3(1), wires(29-44).
1, 5, 43     !chamber 1, V plane, card V3(2), wires(29-44).
2, 5, 42     !chamber 1, V plane, card V3(3), wires(29-44).
3, 5, 41     !chamber 1, V plane, card V3(4), wires(29-44).
4, 5, 40     !chamber 1, V plane, card V3(5), wires(29-44).
5, 5, 39     !chamber 1, V plane, card V3(6), wires(29-44).
6, 5, 38     !chamber 1, V plane, card V3(7), wires(29-44).
```

```
7, 5, 37    !chamber 1, V plane, card V3(8), wires(29-44).
8, 5, 36    !chamber 1, V plane, card V3(9), wires(29-44).
9, 5, 35    !chamber 1, V plane, card V3(10), wires(29-44).
10, 5, 34    !chamber 1, V plane, card V3(11), wires(29-44).
11, 5, 33    !chamber 1, V plane, card V3(12), wires(29-44).
12, 5, 32    !chamber 1, V plane, card V3(13), wires(29-44).
13, 5, 31    !chamber 1, V plane, card V3(14), wires(29-44).
14, 5, 30    !chamber 1, V plane, card V3(15), wires(29-44).
15, 5, 29    !chamber 1, V plane, card V3(16), wires(29-44).
16, 5, 45    !chamber 1, V plane, card V4(1), wires(45-60).
17, 5, 46    !chamber 1, V plane, card V4(2), wires(45-60).
18, 5, 47    !chamber 1, V plane, card V4(3), wires(45-60).
19, 5, 48    !chamber 1, V plane, card V4(4), wires(45-60).
20, 5, 49    !chamber 1, V plane, card V4(5), wires(45-60).
21, 5, 50    !chamber 1, V plane, card V4(6), wires(45-60).
22, 5, 51    !chamber 1, V plane, card V4(7), wires(45-60).
23, 5, 52    !chamber 1, V plane, card V4(8), wires(45-60).
24, 5, 53    !chamber 1, V plane, card V4(9), wires(45-60).
25, 5, 54    !chamber 1, V plane, card V4(10), wires(45-60).
26, 5, 55    !chamber 1, V plane, card V4(11), wires(45-60).
27, 5, 56    !chamber 1, V plane, card V4(12), wires(45-60).
28, 5, 57    !chamber 1, V plane, card V4(13), wires(45-60).
29, 5, 58    !chamber 1, V plane, card V4(14), wires(45-60).
30, 5, 59    !chamber 1, V plane, card V4(15), wires(45-60).
31, 5, 60    !chamber 1, V plane, card V4(16), wires(45-60).
32, 5, 61    !chamber 1, V plane, card V5(1), wires(61-76).
33, 5, 62    !chamber 1, V plane, card V5(2), wires(61-76).
34, 5, 63    !chamber 1, V plane, card V5(3), wires(61-76).
35, 5, 64    !chamber 1, V plane, card V5(4), wires(61-76).
36, 5, 65    !chamber 1, V plane, card V5(5), wires(61-76).
37, 5, 66    !chamber 1, V plane, card V5(6), wires(61-76).
38, 5, 67    !chamber 1, V plane, card V5(7), wires(61-76).
39, 5, 68    !chamber 1, V plane, card V5(8), wires(61-76).
40, 5, 69    !chamber 1, V plane, card V5(9), wires(61-76).
41, 5, 70    !chamber 1, V plane, card V5(10), wires(61-76).
42, 5, 71    !chamber 1, V plane, card V5(11), wires(61-76).
43, 5, 72    !chamber 1, V plane, card V5(12), wires(61-76).
44, 5, 73    !chamber 1, V plane, card V5(13), wires(61-76).
45, 5, 74    !chamber 1, V plane, card V5(14), wires(61-76).
46, 5, 75    !chamber 1, V plane, card V5(15), wires(61-76).
47, 5, 76    !chamber 1, V plane, card V5(16), wires(61-76).
48, 5, 77    !chamber 1, V plane, card V6(1), wires(77-87).
49, 5, 78    !chamber 1, V plane, card V6(2), wires(77-87).
50, 5, 79    !chamber 1, V plane, card V6(3), wires(77-87).
51, 5, 80    !chamber 1, V plane, card V6(4), wires(77-87).
52, 5, 81    !chamber 1, V plane, card V6(5), wires(77-87).
```

53, 5, 82   !chamber 1, V plane, card V6(6), wires(77-87).
54, 5, 83   !chamber 1, V plane, card V6(7), wires(77-87).
55, 5, 84   !chamber 1, V plane, card V6(8), wires(77-87).
56, 5, 85   !chamber 1, V plane, card V6(9), wires(77-87).
57, 5, 86   !chamber 1, V plane, card V6(10), wires(77-87).
58, 5, 87   !chamber 1, V plane, card V6(11), wires(77-87).
! 59, 5, empty   !chamber 1, V plane, card V6(12), wires(77-87).
! 60, 5, empty   !chamber 1, V plane, card V6(13), wires(77-87).
! 61, 5, empty   !chamber 1, V plane, card V6(14), wires(77-87).
! 62, 5, empty   !chamber 1, V plane, card V6(15), wires(77-87).
! 63, 5, empty   !chamber 1, V plane, card V6(16), wires(77-87).
 64, 6, 11   !chamber 1, V' plane, card V'1(1), wires(1-11).
 65, 6, 10   !chamber 1, V' plane, card V'1(2), wires(1-11).
 66, 6, 9   !chamber 1, V' plane, card V'1(3), wires(1-11).
 67, 6, 8   !chamber 1, V' plane, card V'1(4), wires(1-11).
 68, 6, 7   !chamber 1, V' plane, card V'1(5), wires(1-11).
 69, 6, 6   !chamber 1, V' plane, card V'1(6), wires(1-11).
 70, 6, 5   !chamber 1, V' plane, card V'1(7), wires(1-11).
 71, 6, 4   !chamber 1, V' plane, card V'1(8), wires(1-11).
 72, 6, 3   !chamber 1, V' plane, card V'1(9), wires(1-11).
 73, 6, 2   !chamber 1, V' plane, card V'1(10), wires(1-11).
 74, 6, 1   !chamber 1, V' plane, card V'1(11), wires(1-11).
! 75, 6, empty !chamber 1, V' plane, card V'1(12), wires(1-11).
! 76, 6, empty   !chamber 1, V' plane, card V'1(13), wires(1-11).
! 77, 6, empty   !chamber 1, V' plane, card V'1(14), wires(1-11).
! 78, 6, empty   !chamber 1, V' plane, card V'1(15), wires(1-11).
! 79, 6, empty   !chamber 1, V' plane, card V'1(16), wires(1-11).
 80, 6 27   !chamber 1, V' plane, card V'2(1), wires(12-27).
 81, 6, 26   !chamber 1, V' plane, card V'2(2), wires(12-27).
 82, 6, 25   !chamber 1, V' plane, card V'2(3), wires(12-27).
 83, 6, 24   !chamber 1, V' plane, card V'2(4), wires(12-27).
 84, 6, 23   !chamber 1, V' plane, card V'2(5), wires(12-27).
 85, 6, 22   !chamber 1, V' plane, card V'2(6), wires(12-27).
 86, 6, 21   !chamber 1, V' plane, card V'2(7), wires(12-27).
 87, 6, 20   !chamber 1, V' plane, card V'2(8), wires(12-27).
 88, 6, 19   !chamber 1, V' plane, card V'2(9), wires(12-27).
 89, 6, 18   !chamber 1, V' plane, card V'2(10), wires(12-27).
 90, 6, 17   !chamber 1, V' plane, card V'2(11), wires(12-27).
 91, 6, 16   !chamber 1, V' plane, card V'2(12), wires(12-27).
 92, 6, 15   !chamber 1, V' plane, card V'2(13), wires(12-27).
 93, 6, 14   !chamber 1, V' plane, card V'2(14), wires(12-27).
 94, 6, 13   !chamber 1, V' plane, card V'2(15), wires(12-27).
 95, 6, 12   !chamber 1, V' plane, card V'2(16), wires(12-27).

slot=10
0, 6, 43   !chamber 1, V' plane, card V'3(1), wires(28-43).

```
1, 6, 42    !chamber 1, V' plane, card V'3(2), wires(28-43).
2, 6, 41    !chamber 1, V' plane, card V'3(3), wires(28-43).
3, 6, 40    !chamber 1, V' plane, card V'3(4), wires(28-43).
4, 6, 39    !chamber 1, V' plane, card V'3(5), wires(28-43).
5, 6, 38    !chamber 1, V' plane, card V'3(6), wires(28-43).
6, 6, 37    !chamber 1, V' plane, card V'3(7), wires(28-43).
7, 6, 36    !chamber 1, V' plane, card V'3(8), wires(28-43).
8, 6, 35    !chamber 1, V' plane, card V'3(9), wires(28-43).
9, 6, 34    !chamber 1, V' plane, card V'3(10), wires(28-43).
10, 6, 33   !chamber 1, V' plane, card V'3(11), wires(28-43).
11, 6, 32   !chamber 1, V' plane, card V'3(12), wires(28-43).
12, 6, 31   !chamber 1, V' plane, card V'3(13), wires(28-43).
13, 6, 30   !chamber 1, V' plane, card V'3(14), wires(28-43).
14, 6, 29   !chamber 1, V' plane, card V'3(15), wires(28-43).
15, 6, 28   !chamber 1, V' plane, card V'3(16), wires(28-43).
16, 6, 44   !chamber 1, V' plane, card V'4(1), wires(44-59).
17, 6, 45   !chamber 1, V' plane, card V'4(2), wires(44-59).
18, 6, 46   !chamber 1, V' plane, card V'4(3), wires(44-59).
19, 6, 47   !chamber 1, V' plane, card V'4(4), wires(44-59).
20, 6, 48   !chamber 1, V' plane, card V'4(5), wires(44-59).
21, 6, 49   !chamber 1, V' plane, card V'4(6), wires(44-59).
22, 6, 50   !chamber 1, V' plane, card V'4(7), wires(44-59).
23, 6, 51   !chamber 1, V' plane, card V'4(8), wires(44-59).
24, 6, 52   !chamber 1, V' plane, card V'4(9), wires(44-59).
25, 6, 53   !chamber 1, V' plane, card V'4(10), wires(44-59).
26, 6, 54   !chamber 1, V' plane, card V'4(11), wires(44-59).
27, 6, 55   !chamber 1, V' plane, card V'4(12), wires(44-59).
28, 6, 56   !chamber 1, V' plane, card V'4(13), wires(44-59).
29, 6, 57   !chamber 1, V' plane, card V'4(14), wires(44-59).
30, 6, 58   !chamber 1, V' plane, card V'4(15), wires(44-59).
31, 6, 59   !chamber 1, V' plane, card V'4(16), wires(44-59).
32, 6, 60   !chamber 1, V' plane, card V'5(1), wires(60-75).
33, 6, 61   !chamber 1, V' plane, card V'5(2), wires(60-75).
34, 6, 62   !chamber 1, V' plane, card V'5(3), wires(60-75).
35, 6, 63   !chamber 1, V' plane, card V'5(4), wires(60-75).
36, 6, 64   !chamber 1, V' plane, card V'5(5), wires(60-75).
37, 6, 65   !chamber 1, V' plane, card V'5(6), wires(60-75).
38, 6, 66   !chamber 1, V' plane, card V'5(7), wires(60-75).
39, 6, 67   !chamber 1, V' plane, card V'5(8), wires(60-75).
40, 6, 68   !chamber 1, V' plane, card V'5(9), wires(60-75).
41, 6, 69   !chamber 1, V' plane, card V'5(10), wires(60-75).
42, 6, 70   !chamber 1, V' plane, card V'5(11), wires(60-75).
43, 6, 71   !chamber 1, V' plane, card V'5(12), wires(60-75).
44, 6, 72   !chamber 1, V' plane, card V'5(13), wires(60-75).
45, 6, 73   !chamber 1, V' plane, card V'5(14), wires(60-75).
46, 6, 74   !chamber 1, V' plane, card V'5(15), wires(60-75).
```

47, 6, 75   !chamber 1, V' plane, card V'5(16), wires(60-75).
48, 6, 76   !chamber 1, V' plane, card V'6(1), wires(76-87).
49, 6, 77   !chamber 1, V' plane, card V'6(2), wires(76-87).
50, 6, 78   !chamber 1, V' plane, card V'6(3), wires(76-87).
51, 6, 79   !chamber 1, V' plane, card V'6(4), wires(76-87).
52, 5, 80   !chamber 1, V' plane, card V'6(5), wires(76-87).
53, 5, 81   !chamber 1, V' plane, card V'6(6), wires(76-87).
54, 5, 82   !chamber 1, V' plane, card V'6(7), wires(76-87).
55, 5, 83   !chamber 1, V' plane, card V'6(8), wires(76-87).
56, 5, 84   !chamber 1, V' plane, card V'6(9), wires(76-87).
57, 5, 85   !chamber 1, V' plane, card V'6(10), wires(76-87).
58, 5, 86   !chamber 1, V' plane, card V'6(11), wires(76-87).
59, 5, 87   !chamber 1, V' plane, card V'6(12), wires(76-87).
! 60, 5, empty   !chamber 1, V' plane, card V'6(13), wires(76-87).
! 61, 5, empty   !chamber 1, V' plane, card V'6(14), wires(76-87).
! 62, 5, empty   !chamber 1, V' plane, card V'6(15), wires(76-87).
! 63, 5, empty   !chamber 1, V' plane, card V'6(16), wires(76-87).
!!!
!End of HDC1 map

 64, 7, 12   !chamber 2, U plane, card U1(1), wires(1-12).
65, 7, 11   !chamber 2, U plane, card U1(2), wires(1-12).
66, 7, 10   !chamber 2, U plane, card U1(3), wires(1-12).
67, 7, 9   !chamber 2, U plane, card U1(4), wires(1-12).
68, 7, 8   !chamber 2, U plane, card U1(5), wires(1-12).
69, 7, 7   !chamber 2, U plane, card U1(6), wires(1-12).
70, 7, 6   !chamber 2, U plane, card U1(7), wires(1-12).
 71, 7, 5   !chamber 2, U plane, card U1(8), wires(1-12).
 72, 7, 4   !chamber 2, U plane, card U1(9), wires(1-12).
 73, 7, 3   !chamber 2, U plane, card U1(10), wires(1-12).
 74, 7, 2   !chamber 2, U plane, card U1(11), wires(1-12).
 75, 7, 1   !chamber 2, U plane, card U1(12), wires(1-12).
! 76, 7, empty   !chamber 2, U plane, card U1(13), wires(1-12).
! 77, 7, empty   !chamber 2, U plane, card U1(14), wires(1-12).
! 78, 7, empty   !chamber 2, U plane, card U1(15), wires(1-12).
! 79, 7, empty   !chamber 2, U plane, card U1(16), wires(1-12).
 80, 7, 28   !chamber 2, U plane, card U2(1), wires(13-28).
 81, 7, 27   !chamber 2, U plane, card U2(2), wires(13-28).
 82, 7, 26   !chamber 2, U plane, card U2(3), wires(13-28).
 83, 7, 25   !chamber 2, U plane, card U2(4), wires(13-28).
 84, 7, 24   !chamber 2, U plane, card U2(5), wires(13-28).
 85, 7, 23   !chamber 2, U plane, card U2(6), wires(13-28).
 86, 7, 22   !chamber 2, U plane, card U2(7), wires(13-28).
 87, 7, 21   !chamber 2, U plane, card U2(8), wires(13-28).
 88, 7, 20   !chamber 2, U plane, card U2(9), wires(13-28).
 89, 7, 19   !chamber 2, U plane, card U2(10), wires(13-28).

90, 7, 18   !chamber 2, U plane, card U2(11), wires(13-28).
91, 7, 17   !chamber 2, U plane, card U2(12), wires(13-28).
92, 7, 16   !chamber 2, U plane, card U2(13), wires(13-28).
93, 7, 15   !chamber 2, U plane, card U2(14), wires(13-28).
94, 7, 14   !chamber 2, U plane, card U2(15), wires(13-28).
95, 7, 13   !chamber 2, U plane, card U2(16), wires(13-28).

Slot = 11
0, 7, 44   !chamber 2, U plane, card U3(1), wires(29-44).
 1, 7, 43   !chamber 2, U plane, card U3(2), wires(29-44).
 2, 7, 42   !chamber 2, U plane, card U3(3), wires(29-44).
 3, 7, 41   !chamber 2, U plane, card U3(4), wires(29-44).
 4, 7, 40   !chamber 2, U plane, card U3(5), wires(29-44).
 5, 7, 39   !chamber 2, U plane, card U3(6), wires(29-44).
 6, 7, 38   !chamber 2, U plane, card U3(7), wires(29-44).
 7, 7, 37   !chamber 2, U plane, card U3(8), wires(29-44).
 8, 7, 36   !chamber 2, U plane, card U3(9), wires(29-44).
 9, 7, 35   !chamber 2, U plane, card U3(10), wires(29-44).
10, 7, 34   !chamber 2, U plane, card U3(11), wires(29-44).
11, 7, 33   !chamber 2, U plane, card U3(12), wires(29-44).
12 7, 32   !chamber 2, U plane, card U3(13), wires(29-44).
13, 7, 31   !chamber 2, U plane, card U3(14), wires(29-44).
14, 7, 30   !chamber 2, U plane, card U3(15), wires(29-44).
15, 7, 29   !chamber 2, U plane, card U3(16), wires(29-44).
16, 7, 45   !chamber 2, U plane, card U4(1), wires(45-60).
17, 7, 46   !chamber 2, U plane, card U4(2), wires(45-60).
18, 7, 47   !chamber 2, U plane, card U4(3), wires(45-60).
19, 7, 48   !chamber 2, U plane, card U4(4), wires(45-60).
20, 7, 49   !chamber 2, U plane, card U4(5), wires(45-60).
21, 7, 50   !chamber 2, U plane, card U4(6), wires(45-60).
22, 7, 51   !chamber 2, U plane, card U4(7), wires(45-60).
23, 7, 52   !chamber 2, U plane, card U4(8), wires(45-60).
24, 7, 53   !chamber 2, U plane, card U4(9), wires(45-60).
25, 7, 54   !chamber 2, U plane, card U4(10), wires(45-60).
26, 7, 55   !chamber 2, U plane, card U4(11), wires(45-60).
27, 7, 56   !chamber 2, U plane, card U4(12), wires(45-60).
28, 7, 57   !chamber 2, U plane, card U4(13), wires(45-60).
29, 7, 58   !chamber 2, U plane, card U4(14), wires(45-60).
30, 7, 59   !chamber 2, U plane, card U4(15), wires(45-60).
31, 7, 60   !chamber 2, U plane, card U4(16), wires(45-60).
32, 7, 61   !chamber 2, U plane, card U5(1), wires(61-76).
33, 7, 62   !chamber 2, U plane, card U5(2), wires(61-76).
34, 7, 63   !chamber 2, U plane, card U5(3), wires(61-76).
35, 7, 64   !chamber 2, U plane, card U5(4), wires(61-76).
36, 7, 65   !chamber 2, U plane, card U5(5), wires(61-76).
37, 7, 66   !chamber 2, U plane, card U5(6), wires(61-76).

```
38, 7, 67     !chamber 2, U plane, card U5(7), wires(61-76).
39, 7, 68     !chamber 2, U plane, card U5(8), wires(61-76).
40, 7, 69     !chamber 2, U plane, card U5(9), wires(61-76).
41, 7, 70     !chamber 2, U plane, card U5(10), wires(61-76).
42, 7, 71     !chamber 2, U plane, card U5(11), wires(61-76).
43, 7, 72     !chamber 2, U plane, card U5(12), wires(61-76).
44, 7, 73     !chamber 2, U plane, card U5(13), wires(61-76).
45, 7, 74     !chamber 2, U plane, card U5(14), wires(61-76).
46, 7, 75     !chamber 2, U plane, card U5(15), wires(61-76).
47, 7, 76     !chamber 2, U plane, card U5(16), wires(61-76).
48, 7, 77     !chamber 2, U plane, card U6(1), wires(77-87).
49, 7, 78     !chamber 2, U plane, card U6(2), wires(77-87).
50, 7, 79     !chamber 2, U plane, card U6(3), wires(77-87).
51, 7, 80     !chamber 2, U plane, card U6(4), wires(77-87).
52, 7, 81     !chamber 2, U plane, card U6(5), wires(77-87).
53, 7, 82     !chamber 2, U plane, card U6(6), wires(77-87).
54, 7, 83     !chamber 2, U plane, card U6(7), wires(77-87).
55, 7, 84     !chamber 2, U plane, card U6(8), wires(77-87).
56, 7, 85     !chamber 2, U plane, card U6(9), wires(77-87).
57, 7, 86     !chamber 2, U plane, card U6(10), wires(77-87).
58, 7, 87     !chamber 2, U plane, card U6(11), wires(77-87).
! 59, 7, empty   !chamber 2, U plane, card U6(12), wires(77-87).
! 60, 7, empty   !chamber 2, U plane, card U6(13), wires(77-87).
! 61, 7, empty   !chamber 2, U plane, card U6(14), wires(77-87).
! 62, 7, empty   !chamber 2, U plane, card U6(15), wires(77-87).
! 63, 7, empty   !chamber 2, U plane, card U6(16), wires(77-87).
64, 8, 11       !chamber 2, U' plane, card U'1(1), wires(1-11).
65, 8, 10       !chamber 2, U' plane, card U'1(2), wires(1-11).
66, 8, 9      !chamber 2, U' plane, card U'1(3), wires(1-11).
67, 8, 8      !chamber 2, U' plane, card U'1(4), wires(1-11).
68, 8, 7      !chamber 2, U' plane, card U'1(5), wires(1-11).
69, 8, 6      !chamber 2, U' plane, card U'1(6), wires(1-11).
70, 8, 5      !chamber 2, U' plane, card U'1(7), wires(1-11).
71, 8, 4      !chamber 2, U' plane, card U'1(8), wires(1-11).
72, 8, 3      !chamber 2, U' plane, card U'1(9), wires(1-11).
73, 8, 2      !chamber 2, U' plane, card U'1(10), wires(1-11).
74, 8, 1     !chamber 2, U' plane, card U'1(11), wires(1-11).
! 75, 8, empty  !chamber 2, U' plane, card U'1(12), wires(1-11).
! 76, 8, empty   !chamber 2, U' plane, card U'1(13), wires(1-11).
! 77, 8, empty   !chamber 2, U' plane, card U'1(14), wires(1-11).
! 78, 8, empty   !chamber 2, U' plane, card U'1(15), wires(1-11).
! 79, 8, empty   !chamber 2, U' plane, card U'1(16), wires(1-11).
80, 8, 27     !chamber 2, U' plane, card U'2(1), wires(12-27).
81, 8, 26     !chamber 2, U' plane, card U'2(2), wires(12-27).
82, 8, 25     !chamber 2, U' plane, card U'2(3), wires(12-27).
83, 8, 24     !chamber 2, U' plane, card U'2(4), wires(12-27).
```

```
84, 8, 23    !chamber 2, U' plane, card U'2(5), wires(12-27).
85, 8, 22    !chamber 2, U' plane, card U'2(6), wires(12-27).
86, 8, 21    !chamber 2, U' plane, card U'2(7), wires(12-27).
87, 8, 20    !chamber 2, U' plane, card U'2(8), wires(12-27).
88, 8, 19    !chamber 2, U' plane, card U'2(9), wires(12-27).
89, 8, 18    !chamber 2, U' plane, card U'2(10), wires(12-27).
90, 8, 17    !chamber 2, U' plane, card U'2(11), wires(12-27).
91, 8, 16    !chamber 2, U' plane, card U'2(12), wires(12-27).
92, 8, 15    !chamber 2, U' plane, card U'2(13), wires(12-27).
93, 8, 14    !chamber 2, U' plane, card U'2(14), wires(12-27).
94, 8, 13    !chamber 2, U' plane, card U'2(15), wires(12-27).
95, 8, 12    !chamber 2, U' plane, card U'2(16), wires(12-27).

slot = 13
0, 8, 43     !chamber 2, U' plane, card U'3(1), wires(28-43).
1, 8, 42     !chamber 2, U' plane, card U'3(2), wires(28-43).
2, 8, 41     !chamber 2, U' plane, card U'3(3), wires(28-43).
3, 8, 40     !chamber 2, U' plane, card U'3(4), wires(28-43).
4, 8, 39     !chamber 2, U' plane, card U'3(5), wires(28-43).
5, 8, 38     !chamber 2, U' plane, card U'3(6), wires(28-43).
6, 8, 37     !chamber 2, U' plane, card U'3(7), wires(28-43).
7, 8, 36     !chamber 2, U' plane, card U'3(8), wires(28-43).
8, 8, 35     !chamber 2, U' plane, card U'3(9), wires(28-43).
9, 8, 34     !chamber 2, U' plane, card U'3(10), wires(28-43).
10, 8, 33     !chamber 2, U' plane, card U'3(11), wires(28-43).
11, 8, 32     !chamber 2, U' plane, card U'3(12), wires(28-43).
12, 8, 31     !chamber 2, U' plane, card U'3(13), wires(28-43).
13, 8, 30     !chamber 2, U' plane, card U'3(14), wires(28-43).
14, 8, 29     !chamber 2, U' plane, card U'3(15), wires(28-43).
15, 8, 28     !chamber 2, U' plane, card U'3(16), wires(28-43).
16, 8, 44     !chamber 2, U' plane, card U'4(1), wires(44-59).
17, 8, 45     !chamber 2, U' plane, card U'4(2), wires(44-59).
18, 8, 46     !chamber 2, U' plane, card U'4(3), wires(44-59).
19, 8, 47     !chamber 2, U' plane, card U'4(4), wires(44-59).
20, 8, 48     !chamber 2, U' plane, card U'4(5), wires(44-59).
21, 8, 49     !chamber 2, U' plane, card U'4(6), wires(44-59).
22, 8, 50     !chamber 2, U' plane, card U'4(7), wires(44-59).
23, 8, 51     !chamber 2, U' plane, card U'4(8), wires(44-59).
24, 8, 52     !chamber 2, U' plane, card U'4(9), wires(44-59).
25, 8, 53     !chamber 2, U' plane, card U'4(10), wires(44-59).
26, 8, 54     !chamber 2, U' plane, card U'4(11), wires(44-59).
27, 8, 55     !chamber 2, U' plane, card U'4(12), wires(44-59).
28, 8, 56     !chamber 2, U' plane, card U'4(13), wires(44-59).
29, 8, 57     !chamber 2, U' plane, card U'4(14), wires(44-59).
30, 8, 58     !chamber 2, U' plane, card U'4(15), wires(44-59).
31, 8, 59     !chamber 2, U' plane, card U'4(16), wires(44-59).
```

```
32, 8, 60     !chamber 2, U' plane, card U'5(1), wires(60-75).
33, 8, 61     !chamber 2, U' plane, card U'5(2), wires(60-75).
34, 8, 62     !chamber 2, U' plane, card U'5(3), wires(60-75).
35, 8, 63     !chamber 2, U' plane, card U'5(4), wires(60-75).
36, 8, 64     !chamber 2, U' plane, card U'5(5), wires(60-75).
37, 8, 65     !chamber 2, U' plane, card U'5(6), wires(60-75).
38, 8, 66     !chamber 2, U' plane, card U'5(7), wires(60-75).
39, 8, 67     !chamber 2, U' plane, card U'5(8), wires(60-75).
40, 8, 68     !chamber 2, U' plane, card U'5(9), wires(60-75).
41, 8, 69     !chamber 2, U' plane, card U'5(10), wires(60-75).
42, 8, 70     !chamber 2, U' plane, card U'5(11), wires(60-75).
43, 8, 71     !chamber 2, U' plane, card U'5(12), wires(60-75).
44, 8, 72     !chamber 2, U' plane, card U'5(13), wires(60-75).
45, 8, 73     !chamber 2, U' plane, card U'5(14), wires(60-75).
46, 8, 74     !chamber 2, U' plane, card U'5(15), wires(60-75).
47, 8, 75     !chamber 2, U' plane, card U'5(16), wires(60-75).
48, 8, 76     !chamber 2, U' plane, card U'6(1), wires(76-87).
49, 8, 77     !chamber 2, U' plane, card U'6(2), wires(76-87).
50, 8, 78     !chamber 2, U' plane, card U'6(3), wires(76-87).
51, 8, 79     !chamber 2, U' plane, card U'6(4), wires(76-87).
52, 8, 80     !chamber 2, U' plane, card U'6(5), wires(76-87).
53, 8, 81     !chamber 2, U' plane, card U'6(6), wires(76-87).
54, 8, 82     !chamber 2, U' plane, card U'6(7), wires(76-87).
55, 8, 83     !chamber 2, U' plane, card U'6(8), wires(76-87).
56, 8, 84     !chamber 2, U' plane, card U'6(9), wires(76-87).
57, 8, 85     !chamber 2, U' plane, card U'6(10), wires(76-87).
58, 8, 86     !chamber 2, U' plane, card U'6(11), wires(76-87).
59, 8, 87     !chamber 2, U' plane, card U'6(12), wires(76-87).
! 60, 8, empty   !chamber 2, U' plane, card U'6(13), wires(76-87).
! 61, 8, empty   !chamber 2, U' plane, card U'6(14), wires(76-87).
! 62, 8, empty   !chamber 2, U' plane, card U'6(15), wires(76-87).
! 63, 8, empty   !chamber 2, U' plane, card U'6(16), wires(76-87).
!64, 9, empty  !chamber 2, X plane, card X1(1), wires(1-13).
!65, 9, empty  !chamber 2, X plane, card X1(2), wires(1-13).
!66, 9, empty  !chamber 2, X plane, card X1(3), wires(1-13).
67, 9, 1       !chamber 2, X plane, card X1(4), wires(1-13).
68, 9, 2       !chamber 2, X plane, card X1(5), wires(1-13).
69, 9, 3       !chamber 2, X plane, card X1(6), wires(1-13).
70, 9, 4       !chamber 2, X plane, card X1(7), wires(1-13).
71, 9, 5       !chamber 2, X plane, card X1(8), wires(1-13).
72, 9, 6       !chamber 2, X plane, card X1(9), wires(1-13).
73, 9, 7       !chamber 2, X plane, card X1(10), wires(1-13).
74, 9, 8       !chamber 2, X plane, card X1(11), wires(1-13).
75, 9, 9       !chamber 2, X plane, card X1(12), wires(1-13).
76, 9, 10      !chamber 2, X plane, card X1(13), wires(1-13).
77, 9, 11      !chamber 2, X plane, card X1(14), wires(1-13).
```

```
78, 9, 12        !chamber 2, X plane, card X1(15), wires(1-13).
79, 9, 13        !chamber 2, X plane, card X1(16), wires(1-13).
80, 9, 14        !chamber 2, X plane, card X2(1), wires(14-29).
81, 9, 15        !chamber 2, X plane, card X2(2), wires(14-29).
82, 9, 16        !chamber 2, X plane, card X2(3), wires(14-29).
83, 9, 17        !chamber 2, X plane, card X2(4), wires(14-29).
84, 9, 18        !chamber 2, X plane, card X2(5), wires(14-29).
85, 9, 19        !chamber 2, X plane, card X2(6), wires(14-29).
86, 9, 20        !chamber 2, X plane, card X2(7), wires(14-29).
87, 9, 21        !chamber 2, X plane, card X2(8), wires(14-29).
88, 9, 22        !chamber 2, X plane, card X2(9), wires(14-29).
89, 9, 23        !chamber 2, X plane, card X2(10), wires(14-29).
90, 9, 24        !chamber 2, X plane, card X2(11), wires(14-29).
91, 9, 25        !chamber 2, X plane, card X2(12), wires(14-29).
92, 9, 26        !chamber 2, X plane, card X2(13), wires(14-29).
93, 9, 27        !chamber 2, X plane, card X2(14), wires(14-29).
94, 9, 28        !chamber 2, X plane, card X2(15), wires(14-29).
95, 9, 29        !chamber 2, X plane, card X2(16), wires(14-29).

slot  = 15
0, 9, 45         !chamber 2, X plane, card X3(1), wires(30-45).
 1, 9, 44        !chamber 2, X plane, card X3(2), wires(30-45).
 2, 9, 43        !chamber 2, X plane, card X3(3), wires(30-45).
 3, 9, 42        !chamber 2, X plane, card X3(4), wires(30-45).
 4, 9, 41        !chamber 2, X plane, card X3(5), wires(30-45).
 5, 9, 40        !chamber 2, X plane, card X3(6), wires(30-45).
 6, 9, 39        !chamber 2, X plane, card X3(7), wires(30-45).
 7, 9, 38        !chamber 2, X plane, card X3(8), wires(30-45).
 8, 9, 37        !chamber 2, X plane, card X3(9), wires(30-45).
 9, 9, 36        !chamber 2, X plane, card X3(10), wires(30-45).
10, 9, 35        !chamber 2, X plane, card X3(11), wires(30-45).
11, 9, 34        !chamber 2, X plane, card X3(12), wires(30-45).
12, 9, 33        !chamber 2, X plane, card X3(13), wires(30-45).
13, 9, 32        !chamber 2, X plane, card X3(14), wires(30-45).
14, 9, 31        !chamber 2, X plane, card X3(15), wires(30-45).
15, 9, 30        !chamber 2, X plane, card X3(16), wires(30-45).
16, 9, 46        !chamber 2, X plane, card X4(1), wires(46-61).
17, 9, 47        !chamber 2, X plane, card X4(2), wires(46-61).
18, 9, 48        !chamber 2, X plane, card X4(3), wires(46-61).
19, 9, 49        !chamber 2, X plane, card X4(4), wires(46-61).
20, 9, 50        !chamber 2, X plane, card X4(5), wires(46-61).
21, 9, 51        !chamber 2, X plane, card X4(6), wires(46-61).
22, 9, 52        !chamber 2, X plane, card X4(7), wires(46-61).
23, 9, 53        !chamber 2, X plane, card X4(8), wires(46-61).
24, 9, 54        !chamber 2, X plane, card X4(9), wires(46-61).
25, 9, 55        !chamber 2, X plane, card X4(10), wires(46-61).
```

```
26, 9, 56       !chamber 2, X plane, card X4(11), wires(46-61).
27, 9, 57       !chamber 2, X plane, card X4(12), wires(46-61).
28, 9, 58       !chamber 2, X plane, card X4(13), wires(46-61).
29, 9, 59       !chamber 2, X plane, card X4(14), wires(46-61).
30, 9, 60       !chamber 2, X plane, card X4(15), wires(46-61).
31, 9, 61       !chamber 2, X plane, card X4(16), wires(46-61).
32, 9, 77       !chamber 2, X plane, card X5(1), wires(62-77).
33, 9, 76       !chamber 2, X plane, card X5(2), wires(62-77).
34, 9, 75       !chamber 2, X plane, card X5(3), wires(62-77).
35, 9, 74       !chamber 2, X plane, card X5(4), wires(62-77).
36, 9, 73       !chamber 2, X plane, card X5(5), wires(62-77).
37, 9, 72       !chamber 2, X plane, card X5(6), wires(62-77).
38, 9, 71       !chamber 2, X plane, card X5(7), wires(62-77).
39, 9, 70       !chamber 2, X plane, card X5(8), wires(62-77).
40, 9, 69       !chamber 2, X plane, card X5(9), wires(62-77).
41, 9, 68       !chamber 2, X plane, card X5(10), wires(62-77).
42, 9, 67       !chamber 2, X plane, card X5(11), wires(62-77).
43, 9, 66       !chamber 2, X plane, card X5(12), wires(62-77).
44, 9, 65       !chamber 2, X plane, card X5(13), wires(62-77).
45, 9, 64       !chamber 2, X plane, card X5(14), wires(62-77).
46, 9, 63       !chamber 2, X plane, card X5(15), wires(62-77).
47, 9, 62       !chamber 2, X plane, card X5(16), wires(62-77).
48, 9, 78       !chamber 2, X plane, card X6(1), wires(78-93).
49, 9, 79       !chamber 2, X plane, card X6(2), wires(78-93).
50, 9, 80       !chamber 2, X plane, card X6(3), wires(78-93).
51, 9, 81       !chamber 2, X plane, card X6(4), wires(78-93).
52, 9, 82       !chamber 2, X plane, card X6(5), wires(78-93).
53, 9, 83       !chamber 2, X plane, card X6(6), wires(78-93).
54, 9, 84       !chamber 2, X plane, card X6(7), wires(78-93).
55, 9, 85       !chamber 2, X plane, card X6(8), wires(78-93).
56, 9, 86       !chamber 2, X plane, card X6(9), wires(78-93).
57, 9, 87       !chamber 2, X plane, card X6(10), wires(78-93).
58, 9, 88       !chamber 2, X plane, card X6(11), wires(78-93).
59, 9, 89       !chamber 2, X plane, card X6(12), wires(78-93).
60, 9, 90       !chamber 2, X plane, card X6(13), wires(78-93).
61, 9, 91       !chamber 2, X plane, card X6(14), wires(78-93).
62, 9, 92       !chamber 2, X plane, card X6(15), wires(78-93).
64, 9, 109      !chamber 2, X plane, card X7(1), wires(94-109).
65, 9, 108      !chamber 2, X plane, card X7(2), wires(94-109).
66, 9, 107      !chamber 2, X plane, card X7(3), wires(94-109).
67, 9, 106      !chamber 2, X plane, card X7(4), wires(94-109).
68, 9, 105      !chamber 2, X plane, card X7(5), wires(94-109).
69, 9, 104      !chamber 2, X plane, card X7(6), wires(94-109).
70, 9, 103      !chamber 2, X plane, card X7(7), wires(94-109).
71, 9, 102      !chamber 2, X plane, card X7(8), wires(94-109).
72, 9, 101      !chamber 2, X plane, card X7(9), wires(94-109).
```

```
73, 9, 100     !chamber 2, X plane, card X7(10), wires(94-109).
74, 9, 99      !chamber 2, X plane, card X7(11), wires(94-109).
75, 9, 98      !chamber 2, X plane, card X7(12), wires(94-109).
76, 9, 97      !chamber 2, X plane, card X7(13), wires(94-109).
77, 9, 96      !chamber 2, X plane, card X7(14), wires(94-109).
78, 9, 95      !chamber 2, X plane, card X7(15), wires(94-109).
79, 9, 94      !chamber 2, X plane, card X7(16), wires(94-109).
! 80, 9, empty !chamber 2, X plane, card X8(1), wires(110-122).
!81, 9, empty  !chamber 2, X plane, card X8(2), wires(110-122).
!82, 9, empty  !chamber 2, X plane, card X8(3), wires(110-122).
83, 9, 122     !chamber 2, X plane, card X8(4), wires(110-122).
84, 9, 121     !chamber 2, X plane, card X8(5), wires(110-122).
85, 9, 120     !chamber 2, X plane, card X8(6), wires(110-122).
86, 9, 119     !chamber 2, X plane, card X8(7), wires(110-122).
87, 9, 118     !chamber 2, X plane, card X8(8), wires(110-122).
88, 9, 117     !chamber 2, X plane, card X8(9), wires(110-122).
89, 9, 116     !chamber 2, X plane, card X8(10), wires(110-122).
90, 9, 115     !chamber 2, X plane, card X8(11), wires(110-122).
91, 9, 114     !chamber 2, X plane, card X8(12), wires(110-122).
92, 9, 113     !chamber 2, X plane, card X8(13), wires(110-122).
93, 9, 112     !chamber 2, X plane, card X8(14), wires(110-122).
94, 9, 111     !chamber 2, X plane, card X8(15), wires(110-122).
95, 9, 110     !chamber 2, X plane, card X8(16), wires(110-122).

slot =16
! 0, 10, empty !chamber 2, X' plane, card X'1(1), wires(1-13).
!1, 10, empty  !chamber 2, X' plane, card X'1(2), wires(1-13).
!2, 10, empty  !chamber 2, X' plane, card X'1(3), wires(1-13).
3, 10, 1       !chamber 2, X' plane, card X'1(4), wires(1-13).
4, 10, 2       !chamber 2, X' plane, card X'1(5), wires(1-13).
5, 10, 3       !chamber 2, X' plane, card X'1(6), wires(1-13).
6, 10, 4       !chamber 2, X' plane, card X'1(7), wires(1-13).
7, 10, 5       !chamber 2, X' plane, card X'1(8), wires(1-13).
8, 10, 6       !chamber 2, X' plane, card X'1(9), wires(1-13).
9, 10, 7       !chamber 2, X' plane, card X'1(10), wires(1-13).
10, 10, 8      !chamber 2, X' plane, card X'1(11), wires(1-13).
11, 10, 9      !chamber 2, X' plane, card X'1(12), wires(1-13).
12, 10, 10     !chamber 2, X' plane, card X'1(13), wires(1-13).
13, 10, 11     !chamber 2, X' plane, card X'1(14), wires(1-13).
14, 10, 12     !chamber 2, X' plane, card X'1(15), wires(1-13).
15, 10, 13     !chamber 2, X' plane, card X'1(16), wires(1-13).
16, 10, 14     !chamber 2, X' plane, card X'2(1), wires(14-29).
17, 10, 15     !chamber 2, X' plane, card X'2(2), wires(14-29).
18, 10, 16     !chamber 2, X' plane, card X'2(3), wires(14-29).
19, 10, 17     !chamber 2, X' plane, card X'2(4), wires(14-29).
20, 10, 18     !chamber 2, X' plane, card X'2(5), wires(14-29).
```

```
21, 10, 19      !chamber 2, X' plane, card X'2(6), wires(14-29).
22, 10, 20      !chamber 2, X' plane, card X'2(7), wires(14-29).
23, 10, 21      !chamber 2, X' plane, card X'2(8), wires(14-29).
24, 10, 22      !chamber 2, X' plane, card X'2(9), wires(14-29).
25, 10, 23      !chamber 2, X' plane, card X'2(10), wires(14-29).
26, 10, 24      !chamber 2, X' plane, card X'2(11), wires(14-29).
27, 10, 25      !chamber 2, X' plane, card X'2(12), wires(14-29).
28, 10, 26      !chamber 2, X' plane, card X'2(13), wires(14-29).
29, 10, 27      !chamber 2, X' plane, card X'2(14), wires(14-29).
30, 10, 28      !chamber 2, X' plane, card X'2(15), wires(14-29).
31, 10, 29      !chamber 2, X' plane, card X'2(16), wires(14-29).
32, 10, 45      !chamber 2, X' plane, card X'3(1), wires(30-45).
33, 10, 44      !chamber 2, X' plane, card X'3(2), wires(30-45).
34, 10, 43      !chamber 2, X' plane, card X'3(3), wires(30-45).
35, 10, 42      !chamber 2, X' plane, card X'3(4), wires(30-45).
36, 10, 41      !chamber 2, X' plane, card X'3(5), wires(30-45).
37, 10, 40      !chamber 2, X' plane, card X'3(6), wires(30-45).
38, 10, 39      !chamber 2, X' plane, card X'3(7), wires(30-45).
39, 10, 38      !chamber 2, X' plane, card X'3(8), wires(30-45).
40, 10, 37      !chamber 2, X' plane, card X'3(9), wires(30-45).
41, 10, 36      !chamber 2, X' plane, card X'3(10), wires(30-45).
42, 10, 35      !chamber 2, X' plane, card X'3(11), wires(30-45).
43, 10, 34      !chamber 2, X' plane, card X'3(12), wires(30-45).
44, 10, 33      !chamber 2, X' plane, card X'3(13), wires(30-45).
45, 10, 32      !chamber 2, X' plane, card X'3(14), wires(30-45).
46, 10, 31      !chamber 2, X' plane, card X'3(15), wires(30-45).
47, 10, 30      !chamber 2, X' plane, card X'3(16), wires(30-45).
48, 10, 46      !chamber 2, X' plane, card X'4(1), wires(46-61).
49, 10, 47      !chamber 2, X' plane, card X'4(2), wires(46-61).
50, 10, 48      !chamber 2, X' plane, card X'4(3), wires(46-61).
51, 10, 49      !chamber 2, X' plane, card X'4(4), wires(46-61).
52, 10, 50      !chamber 2, X' plane, card X'4(5), wires(46-61).
53, 10, 51      !chamber 2, X' plane, card X'4(6), wires(46-61).
54, 10, 52      !chamber 2, X' plane, card X'4(7), wires(46-61).
55, 10, 53      !chamber 2, X' plane, card X'4(8), wires(46-61).
56, 10, 54      !chamber 2, X' plane, card X'4(9), wires(46-61).
57, 10, 55      !chamber 2, X' plane, card X'4(10), wires(46-61).
58, 10, 56      !chamber 2, X' plane, card X'4(11), wires(46-61).
59, 10, 57      !chamber 2, X' plane, card X'4(12), wires(46-61).
60, 10, 58      !chamber 2, X' plane, card X'4(13), wires(46-61).
61, 10, 59      !chamber 2, X' plane, card X'4(14), wires(46-61).
62, 10, 60      !chamber 2, X' plane, card X'4(15), wires(46-61).
63, 10, 61      !chamber 2, X' plane, card X'4(16), wires(46-61).
64, 10, 77      !chamber 2, X' plane, card X'5(1), wires(62-77).
65, 10, 76      !chamber 2, X' plane, card X'5(2), wires(62-77).
66, 10, 75      !chamber 2, X' plane, card X'5(3), wires(62-77).
```

67, 10, 74   !chamber 2, X' plane, card X'5(4), wires(62-77).
68, 10, 73   !chamber 2, X' plane, card X'5(5), wires(62-77).
69, 10, 72   !chamber 2, X' plane, card X'5(6), wires(62-77).
70, 10, 71   !chamber 2, X' plane, card X'5(7), wires(62-77).
71, 10, 70   !chamber 2, X' plane, card X'5(8), wires(62-77).
72, 10, 69   !chamber 2, X' plane, card X'5(9), wires(62-77).
73, 10, 68   !chamber 2, X' plane, card X'5(10), wires(62-77).
74, 10, 67   !chamber 2, X' plane, card X'5(11), wires(62-77).
75, 10, 66   !chamber 2, X' plane, card X'5(12), wires(62-77).
76, 10, 65   !chamber 2, X' plane, card X'5(13), wires(62-77).
77, 10, 64   !chamber 2, X' plane, card X'5(14), wires(62-77).
78, 10, 63   !chamber 2, X' plane, card X'5(15), wires(62-77).
79, 10, 62   !chamber 2, X' plane, card X'5(16), wires(62-77).
80, 10, 78   !chamber 2, X' plane, card X'6(1), wires(78-93).
81, 10, 79   !chamber 2, X' plane, card X'6(2), wires(78-93).
82, 10, 80   !chamber 2, X' plane, card X'6(3), wires(78-93).
83, 10, 81   !chamber 2, X' plane, card X'6(4), wires(78-93).
84, 10, 82   !chamber 2, X' plane, card X'6(5), wires(78-93).
85, 10, 83   !chamber 2, X' plane, card X'6(6), wires(78-93).
86, 10, 84   !chamber 2, X' plane, card X'6(7), wires(78-93).
87, 10, 85   !chamber 2, X' plane, card X'6(8), wires(78-93).
88, 10, 86   !chamber 2, X' plane, card X'6(9), wires(78-93).
89, 10, 87   !chamber 2, X' plane, card X'6(10), wires(78-93).
90, 10, 88   !chamber 2, X' plane, card X'6(11), wires(78-93).
91, 10, 89   !chamber 2, X' plane, card X'6(12), wires(78-93).
92, 10, 90   !chamber 2, X' plane, card X'6(13), wires(78-93).
93, 10, 91   !chamber 2, X' plane, card X'6(14), wires(78-93).
94, 10, 92   !chamber 2, X' plane, card X'6(15), wires(78-93).
95, 10, 93   !chamber 2, X' plane, card X'6(16), wires(78-93).

slot=18
0, 10, 109   !chamber 2, X' plane, card X'7(1), wires(94-109).
1, 10, 108   !chamber 2, X' plane, card X'7(2), wires(94-109).
2, 10, 107   !chamber 2, X' plane, card X'7(3), wires(94-109).
3, 10, 106   !chamber 2, X' plane, card X'7(4), wires(94-109).
4, 10, 105   !chamber 2, X' plane, card X'7(5), wires(94-109).
5, 10, 104   !chamber 2, X' plane, card X'7(6), wires(94-109).
6, 10, 103   !chamber 2, X' plane, card X'7(7), wires(94-109).
7, 10, 102   !chamber 2, X' plane, card X'7(8), wires(94-109).
8, 10, 101   !chamber 2, X' plane, card X'7(9), wires(94-109).
9, 10, 100   !chamber 2, X' plane, card X'7(10), wires(94-109).
10, 10, 99   !chamber 2, X' plane, card X'7(11), wires(94-109).
11, 10, 98   !chamber 2, X' plane, card X'7(12), wires(94-109).
12, 10, 97   !chamber 2, X' plane, card X'7(13), wires(94-109).
13, 10, 96   !chamber 2, X' plane, card X'7(14), wires(94-109).
14, 10, 95   !chamber 2, X' plane, card X'7(15), wires(94-109).

```
 15, 10, 94      !chamber 2, X' plane, card X'7(16), wires(94-109).
! 16, 10, empty        !chamber 2, X' plane, card X'8(1), wires(110-122).
!17, 10, empty         !chamber 2, X' plane, card X'8(2), wires(110-122).
!18, 10, empty         !chamber 2, X' plane, card X'8(3), wires(110-122).
 19, 10, 122     !chamber 2, X' plane, card X'8(4), wires(110-122).
 20, 10, 121     !chamber 2, X' plane, card X'8(5), wires(110-122).
 21, 10, 120     !chamber 2, X' plane, card X'8(6), wires(110-122).
 22, 10, 119     !chamber 2, X' plane, card X'8(7), wires(110-122).
 23, 10, 118     !chamber 2, X' plane, card X'8(8), wires(110-122).
 24, 10, 117     !chamber 2, X' plane, card X'8(9), wires(110-122).
 25, 10, 116     !chamber 2, X' plane, card X'8(10), wires(110-122).
 26, 10, 115     !chamber 2, X' plane, card X'8(11), wires(110-122).
 27, 10, 114     !chamber 2, X' plane, card X'8(12), wires(110-122).
 28, 10, 113     !chamber 2, X' plane, card X'8(13), wires(110-122).
 29, 10, 112     !chamber 2, X' plane, card X'8(14), wires(110-122).
 30, 10, 111     !chamber 2, X' plane, card X'8(15), wires(110-122).
 31, 10, 110     !chamber 2, X' plane, card X'8(16), wires(110-122).
 32, 11, 12      !chamber 2, V plane, card V1(1), wires(1-12).
 33, 11, 11      !chamber 2, V plane, card V1(2), wires(1-12).
 34, 11, 10      !chamber 2, V plane, card V1(3), wires(1-12).
 35, 11, 9       !chamber 2, V plane, card V1(4), wires(1-12).
 36, 11, 8       !chamber 2, V plane, card V1(5), wires(1-12).
 37, 11, 7       !chamber 2, V plane, card V1(6), wires(1-12).
 38, 11, 6       !chamber 2, V plane, card V1(7), wires(1-12).
 39, 11, 5       !chamber 2, V plane, card V1(8), wires(1-12).
 40, 11, 4       !chamber 2, V plane, card V1(9), wires(1-12).
 41, 11, 3       !chamber 2, V plane, card V1(10), wires(1-12).
 42, 11, 2       !chamber 2, V plane, card V1(11), wires(1-12).
 43, 11, 1       !chamber 2, V plane, card V1(12), wires(1-12).
! 44, 11, empty   !chamber 2, V plane, card V1(13), wires(1-12).
! 45, 11, empty   !chamber 2, V plane, card V1(14), wires(1-12).
! 46, 11, empty   !chamber 2, V plane, card V1(15), wires(1-12).
! 47, 11, empty   !chamber 2, V plane, card V1(16), wires(1-12).
 48, 11, 28      !chamber 2, V plane, card V2(1), wires(13-28).
 49, 11, 27      !chamber 2, V plane, card V2(2), wires(13-28).
 50, 11, 26      !chamber 2, V plane, card V2(3), wires(13-28).
 51, 11, 25      !chamber 2, V plane, card V2(4), wires(13-28).
 52, 11, 24      !chamber 2, V plane, card V2(5), wires(13-28).
 53, 11, 23      !chamber 2, V plane, card V2(6), wires(13-28).
 54, 11, 22      !chamber 2, V plane, card V2(7), wires(13-28).
 55, 11, 21      !chamber 2, V plane, card V2(8), wires(13-28).
 56, 11, 20      !chamber 2, V plane, card V2(9), wires(13-28).
 57, 11, 19      !chamber 2, V plane, card V2(10), wires(13-28).
 58, 11, 18      !chamber 2, V plane, card V2(11), wires(13-28).
 59, 11, 17      !chamber 2, V plane, card V2(12), wires(13-28).
 60, 11, 16      !chamber 2, V plane, card V2(13), wires(13-28).
```

```
61, 11, 15    !chamber 2, V plane, card V2(14), wires(13-28).
62, 11, 14    !chamber 2, V plane, card V2(15), wires(13-28).
63, 11, 13    !chamber 2, V plane, card V2(16), wires(13-28).
64, 11, 44    !chamber 2, V plane, card V3(1), wires(29-44).
65, 11, 43    !chamber 2, V plane, card V3(2), wires(29-44).
66, 11, 42    !chamber 2, V plane, card V3(3), wires(29-44).
67, 11, 41    !chamber 2, V plane, card V3(4), wires(29-44).
68, 11, 40    !chamber 2, V plane, card V3(5), wires(29-44).
69, 11, 39    !chamber 2, V plane, card V3(6), wires(29-44).
70, 11, 38    !chamber 2, V plane, card V3(7), wires(29-44).
71, 11, 37    !chamber 2, V plane, card V3(8), wires(29-44).
72, 11, 36    !chamber 2, V plane, card V3(9), wires(29-44).
73, 11, 35    !chamber 2, V plane, card V3(10), wires(29-44).
74, 11, 34    !chamber 2, V plane, card V3(11), wires(29-44).
75, 11, 33    !chamber 2, V plane, card V3(12), wires(29-44).
76, 11, 32    !chamber 2, V plane, card V3(13), wires(29-44).
77, 11, 31    !chamber 2, V plane, card V3(14), wires(29-44).
78, 11, 30    !chamber 2, V plane, card V3(15), wires(29-44).
79, 11, 29    !chamber 2, V plane, card V3(16), wires(29-44).
80, 11, 45    !chamber 2, V plane, card V4(1), wires(45-60).
81, 11, 46    !chamber 2, V plane, card V4(2), wires(45-60).
82, 11, 47    !chamber 2, V plane, card V4(3), wires(45-60).
83, 11, 48    !chamber 2, V plane, card V4(4), wires(45-60).
84, 11, 49    !chamber 2, V plane, card V4(5), wires(45-60).
85, 11, 50    !chamber 2, V plane, card V4(6), wires(45-60).
86, 11, 51    !chamber 2, V plane, card V4(7), wires(45-60).
87, 11, 52    !chamber 2, V plane, card V4(8), wires(45-60).
88, 11, 53    !chamber 2, V plane, card V4(9), wires(45-60).
89, 11, 54    !chamber 2, V plane, card V4(10), wires(45-60).
90, 11, 55    !chamber 2, V plane, card V4(11), wires(45-60).
91, 11, 56    !chamber 2, V plane, card V4(12), wires(45-60).
92, 11, 57    !chamber 2, V plane, card V4(13), wires(45-60).
93, 11, 58    !chamber 2, V plane, card V4(14), wires(45-60).
94, 11, 59    !chamber 2, V plane, card V4(15), wires(45-60).
95, 11, 60    !chamber 2, V plane, card V4(16), wires(45-60).

slot=19
0, 11, 61    !chamber 2, V plane, card V5(1), wires(61-76).
1, 11, 62    !chamber 2, V plane, card V5(2), wires(61-76).
2, 11, 63    !chamber 2, V plane, card V5(3), wires(61-76).
3, 11, 64    !chamber 2, V plane, card V5(4), wires(61-76).
4, 11, 65    !chamber 2, V plane, card V5(5), wires(61-76).
5, 11, 66    !chamber 2, V plane, card V5(6), wires(61-76).
6, 11, 67    !chamber 2, V plane, card V5(7), wires(61-76).
7, 11, 68    !chamber 2, V plane, card V5(8), wires(61-76).
8, 11, 69    !chamber 2, V plane, card V5(9), wires(61-76).
```

```
 9, 11, 70     !chamber 2, V plane, card V5(10), wires(61-76).
10, 11, 71      !chamber 2, V plane, card V5(11), wires(61-76).
11, 11, 72      !chamber 2, V plane, card V5(12), wires(61-76).
12, 11, 73      !chamber 2, V plane, card V5(13), wires(61-76).
13, 11, 74      !chamber 2, V plane, card V5(14), wires(61-76).
14, 11, 75      !chamber 2, V plane, card V5(15), wires(61-76).
15, 11, 76      !chamber 2, V plane, card V5(16), wires(61-76).
16, 11, 77      !chamber 2, V plane, card V6(1), wires(77-87).
17, 11, 78      !chamber 2, V plane, card V6(2), wires(77-87).
18, 11, 79      !chamber 2, V plane, card V6(3), wires(77-87).
19, 11, 80      !chamber 2, V plane, card V6(4), wires(77-87).
20, 11, 81      !chamber 2, V plane, card V6(5), wires(77-87).
21, 11, 82      !chamber 2, V plane, card V6(6), wires(77-87).
22, 11, 83      !chamber 2, V plane, card V6(7), wires(77-87).
23, 11, 84      !chamber 2, V plane, card V6(8), wires(77-87).
24, 11, 85      !chamber 2, V plane, card V6(9), wires(77-87).
25, 11, 86      !chamber 2, V plane, card V6(10), wires(77-87).
26, 11, 87      !chamber 2, V plane, card V6(11), wires(77-87).
!27, 11, empty   !chamber 2, V plane, card V6(12), wires(77-87).
! 28, 11, empty   !chamber 2, V plane, card V6(13), wires(77-87).
! 29, 11, empty   !chamber 2, V plane, card V6(14), wires(77-87).
! 30, 11, empty   !chamber 2, V plane, card V6(15), wires(77-87).
! 31, 11, empty   !chamber 2, V plane, card V6(16), wires(77-87).
32, 12, 11       !chamber 2, V' plane, card V'1(1), wires(1-11).
33, 12, 10       !chamber 2, V' plane, card V'1(2), wires(1-11).
 34, 12, 9       !chamber 2, V' plane, card V'1(3), wires(1-11).
 35, 12, 8       !chamber 2, V' plane, card V'1(4), wires(1-11).
 36, 12, 7       !chamber 2, V' plane, card V'1(5), wires(1-11).
 37, 12, 6       !chamber 2, V' plane, card V'1(6), wires(1-11).
 38, 12, 5       !chamber 2, V' plane, card V'1(7), wires(1-11).
 39, 12, 4       !chamber 2, V' plane, card V'1(8), wires(1-11).
 40, 12, 3       !chamber 2, V' plane, card V'1(9), wires(1-11).
 41, 12, 2       !chamber 2, V' plane, card V'1(10), wires(1-11).
 42, 12, 1       !chamber 2, V' plane, card V'1(11), wires(1-11).
! 43, 12, empty  !chamber 2, V' plane, card V'1(12), wires(1-11).
! 44, 12, empty   !chamber 2, V' plane, card V'1(13), wires(1-11).
! 45, 12, empty   !chamber 2, V' plane, card V'1(14), wires(1-11).
! 46, 12, empty   !chamber 2, V' plane, card V'1(15), wires(1-11).
! 47, 12, empty   !chamber 2, V' plane, card V'1(16), wires(1-11).
 48 12, 27      !chamber 2, V' plane, card V'2(1), wires(12-27).
 49, 12, 26      !chamber 2, V' plane, card V'2(2), wires(12-27).
 50, 12, 25      !chamber 2, V' plane, card V'2(3), wires(12-27).
 51, 12, 24      !chamber 2, V' plane, card V'2(4), wires(12-27).
 52, 12, 23      !chamber 2, V' plane, card V'2(5), wires(12-27).
 53, 12, 22      !chamber 2, V' plane, card V'2(6), wires(12-27).
 54, 12, 21      !chamber 2, V' plane, card V'2(7), wires(12-27).
```

55, 12, 20   !chamber 2, V' plane, card V'2(8), wires(12-27).
56, 12, 19   !chamber 2, V' plane, card V'2(9), wires(12-27).
57, 12, 18   !chamber 2, V' plane, card V'2(10), wires(12-27).
58, 12, 17   !chamber 2, V' plane, card V'2(11), wires(12-27).
59, 12, 16   !chamber 2, V' plane, card V'2(12), wires(12-27).
60, 12, 15   !chamber 2, V' plane, card V'2(13), wires(12-27).
61, 12, 14   !chamber 2, V' plane, card V'2(14), wires(12-27).
62, 12, 13   !chamber 2, V' plane, card V'2(15), wires(12-27).
63, 12, 12   !chamber 2, V' plane, card V'2(16), wires(12-27).
64, 12, 43   !chamber 2, V' plane, card V'3(1), wires(28-43).
65, 12, 42   !chamber 2, V' plane, card V'3(2), wires(28-43).
66, 12, 41   !chamber 2, V' plane, card V'3(3), wires(28-43).
67, 12, 40   !chamber 2, V' plane, card V'3(4), wires(28-43).
68, 12, 39   !chamber 2, V' plane, card V'3(5), wires(28-43).
69, 12, 38   !chamber 2, V' plane, card V'3(6), wires(28-43).
70, 12, 37   !chamber 2, V' plane, card V'3(7), wires(28-43).
71, 12, 36   !chamber 2, V' plane, card V'3(8), wires(28-43).
72, 12, 35   !chamber 2, V' plane, card V'3(9), wires(28-43).
73, 12, 34   !chamber 2, V' plane, card V'3(10), wires(28-43).
74, 12, 33   !chamber 2, V' plane, card V'3(11), wires(28-43).
75, 12, 32   !chamber 2, V' plane, card V'3(12), wires(28-43).
76, 12, 31   !chamber 2, V' plane, card V'3(13), wires(28-43).
77, 12, 30   !chamber 2, V' plane, card V'3(14), wires(28-43).
78, 12, 29   !chamber 2, V' plane, card V'3(15), wires(28-43).
79, 12, 28   !chamber 2, V' plane, card V'3(16), wires(28-43).
80, 12, 44   !chamber 2, V' plane, card V'4(1), wires(44-59).
81, 12, 45   !chamber 2, V' plane, card V'4(2), wires(44-59).
82, 12, 46   !chamber 2, V' plane, card V'4(3), wires(44-59).
83, 12, 47   !chamber 2, V' plane, card V'4(4), wires(44-59).
84, 12, 48   !chamber 2, V' plane, card V'4(5), wires(44-59).
85, 12, 49   !chamber 2, V' plane, card V'4(6), wires(44-59).
86, 12, 50   !chamber 2, V' plane, card V'4(7), wires(44-59).
87, 12, 51   !chamber 2, V' plane, card V'4(8), wires(44-59).
88, 12, 52   !chamber 2, V' plane, card V'4(9), wires(44-59).
89, 12, 53   !chamber 2, V' plane, card V'4(10), wires(44-59).
90, 12, 54   !chamber 2, V' plane, card V'4(11), wires(44-59).
91, 12, 55   !chamber 2, V' plane, card V'4(12), wires(44-59).
92, 12, 56   !chamber 2, V' plane, card V'4(13), wires(44-59).
93, 12, 57   !chamber 2, V' plane, card V'4(14), wires(44-59).
94, 12, 58   !chamber 2, V' plane, card V'4(15), wires(44-59).
95, 12, 59   !chamber 2, V' plane, card V'4(16), wires(44-59).

slot=20
0, 12, 60   !chamber 2, V' plane, card V'5(1), wires(60-75).
1, 12, 61   !chamber 2, V' plane, card V'5(2), wires(60-75).
2, 12, 62   !chamber 2, V' plane, card V'5(3), wires(60-75).

```
3, 12, 63      !chamber 2, V' plane, card V'5(4), wires(60-75).
4, 12, 64      !chamber 2, V' plane, card V'5(5), wires(60-75).
5, 12, 65      !chamber 2, V' plane, card V'5(6), wires(60-75).
6, 12, 66      !chamber 2, V' plane, card V'5(7), wires(60-75).
7, 12, 67      !chamber 2, V' plane, card V'5(8), wires(60-75).
8, 12, 68      !chamber 2, V' plane, card V'5(9), wires(60-75).
9, 12, 69      !chamber 2, V' plane, card V'5(10), wires(60-75).
10, 12, 70      !chamber 2, V' plane, card V'5(11), wires(60-75).
11, 12, 71      !chamber 2, V' plane, card V'5(12), wires(60-75).
12, 12, 72      !chamber 2, V' plane, card V'5(13), wires(60-75).
13, 12, 73      !chamber 2, V' plane, card V'5(14), wires(60-75).
14, 12, 74      !chamber 2, V' plane, card V'5(15), wires(60-75).
15, 12, 75      !chamber 2, V' plane, card V'5(16), wires(60-75).
16, 12, 76      !chamber 2, V' plane, card V'6(1), wires(76-87).
17, 12, 77      !chamber 2, V' plane, card V'6(2), wires(76-87).
18, 12, 78      !chamber 2, V' plane, card V'6(3), wires(76-87).
19, 12, 79      !chamber 2, V' plane, card V'6(4), wires(76-87).
20, 12, 80      !chamber 2, V' plane, card V'6(5), wires(76-87).
21, 12, 81      !chamber 2, V' plane, card V'6(6), wires(76-87).
22, 12, 82      !chamber 2, V' plane, card V'6(7), wires(76-87).
23, 12, 83      !chamber 2, V' plane, card V'6(8), wires(76-87).
24, 12, 84      !chamber 2, V' plane, card V'6(9), wires(76-87).
25, 12, 85      !chamber 2, V' plane, card V'6(10), wires(76-87).
26, 12, 86      !chamber 2, V' plane, card V'6(11), wires(76-87).
27, 12, 87      !chamber 2, V' plane, card V'6(12), wires(76-87).
! 28, 12, empty   !chamber 2, V' plane, card V'6(13), wires(76-87).
! 29, 12, empty   !chamber 2, V' plane, card V'6(14), wires(76-87).
! 30, 12, empty   !chamber 2, V' plane, card V'6(15), wires(76-87).
! 31, 12, empty   !chamber 2, V' plane, card V'6(16), wires(76-87).
! 32, empty
! 33, empty
! 34, empty
! 35, empty
! 36, empty
! 37, empty
! 38, empty
! 39, empty
! 40, empty
! 41, empty
! 42, empty
! 43, empty
! 44, empty
! 45, empty
! 46, empty
! 47, empty
! 48, empty
```

! 49, empty
! 50, empty
! 51, empty
! 52, empty
! 53, empty
! 54, empty
! 55, empty
! 56, empty
! 57, empty
! 58, empty
! 59, empty
! 60, empty
! 61, empty
! 62, empty
! 63, empty
! 64, empty
! 65, empty
! 66, empty
! 67, empty
! 68, empty
! 69, empty
! 70, empty
! 71, empty
! 72, empty
! 73, empty
! 74, empty
! 75, empty
! 76, empty
! 77, empty
! 78, empty
! 79, empty
! 80, empty
! 81, empty
! 82, empty
! 83, empty
! 84, empty
! 85, empty
! 86, empty
! 87, empty
! 88, empty
! 89, empty
! 90, empty
! 91, empty
! 92, empty
! 93, empty
! 94, empty

! 95, empty

!!!
!End of HDC2 map