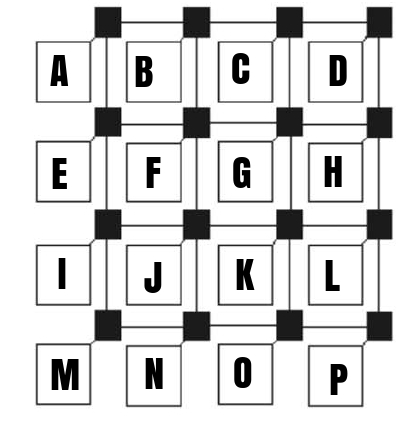
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| source | Destination | | | | | | | | | | | | | | | |
|  | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
| A | 0 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 |
| B | 1 | 0 | 1 | 2 | 2 | 1 | 2 | 3 | 3 | 2 | 3 | 4 | 4 | 3 | 4 | 5 |
| C | 2 | 1 | 0 | 1 | 3 | 2 | 1 | 2 | 4 | 3 | 2 | 3 | 5 | 4 | 3 | 4 |
| D | 3 | 2 | 1 | 0 | 4 | 3 | 2 | 1 | 5 | 4 | 3 | 2 | 6 | 5 | 4 | 3 |
| E | 1 | 2 | 3 | 4 | 0 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | 2 | 3 | 4 | 5 |
| F | 2 | 1 | 2 | 3 | 1 | 0 | 1 | 2 | 2 | 1 | 2 | 3 | 3 | 2 | 3 | 4 |
| G | 3 | 2 | 1 | 2 | 2 | 1 | 0 | 1 | 3 | 2 | 1 | 2 | 4 | 3 | 2 | 3 |
| H | 4 | 3 | 2 | 1 | 3 | 2 | 1 | 0 | 4 | 3 | 2 | 1 | 5 | 4 | 3 | 2 |
| I | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 0 | 1 | 2 | 3 | 1 | 2 | 3 | 4 |
| J | 3 | 2 | 3 | 4 | 2 | 1 | 2 | 3 | 1 | 0 | 1 | 2 | 2 | 1 | 2 | 3 |
| K | 4 | 3 | 2 | 3 | 3 | 2 | 1 | 2 | 2 | 1 | 0 | 1 | 3 | 2 | 1 | 2 |
| L | 5 | 4 | 3 | 2 | 4 | 3 | 2 | 1 | 3 | 2 | 1 | 0 | 4 | 3 | 2 | 1 |
| M | 3 | 4 | 5 | 6 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 0 | 1 | 2 | 3 |
| N | 4 | 3 | 4 | 5 | 3 | 2 | 3 | 4 | 2 | 1 | 2 | 3 | 1 | 0 | 1 | 2 |
| O | 5 | 4 | 3 | 4 | 4 | 3 | 2 | 3 | 3 | 2 | 1 | 2 | 2 | 1 | 0 | 1 |
| P | 6 | 5 | 4 | 3 | 5 | 4 | 3 | 2 | 4 | 3 | 2 | 1 | 3 | 2 | 1 | 0 |



|  |  |  |  |
| --- | --- | --- | --- |
| SOURCE | DESTINATION | ROUTE | HOPS |
| **A** | **B** | **A,B** | **1** |
| **A** | **C** | **A,B,C** | **2** |
| **A** | **D** | **A,B,C,D** | **3** |
| **A** | **E** | **A,E** | **1** |
| **A** | **F** | **A,E,F** | **2** |
| **A** | **G** | **A,E,F,G** | **3** |
| **A** | **H** | **A,E,F,G,H** | **4** |
| **A** | **I** | **A,E,I** | **2** |
| **A** | **J** | **A,E,I,J** | **3** |
| **A** | **K** | **A,E,I,J,K** | **4** |
| **A** | **L** | **A,E,I,J,K,L** | **5** |
| A  A  A  A  B  B  B  B  B  B  B  B  B  B  B  B  B  B  B  B  C  C  C  C  C  C  C  C  C  C  C  C  C  C  C  C  D  D  D  D  D  D  D  D  D  D  D  D  D  D  D  D  E  E  E  E  E  E  E  E  E  E  E  E  E  E  E  E  F  F  F  F  F  F  F  F  F  F  F  F  F  F  F  F  G  G  G  G  G  G  G  G  G  G  G  G  G  G  G  G  H  H  H  H  H  H  H  H  H  H  H  H  H  H  H  H  I  I  I  I  I  I  I  I  I  I  I  I  I  I  I  I  J  J  J  J  J  J  J  J  J  J  J  J  J  J  J  J  K  K  K  K  K  K  K  K  K  K  K  K  K  K  K  K  L  L  L  L  L  L  L  L  L  L  L  L  L  L  L  L  M  M  M  M  M  M  M  M  M  M  M  M  M  M  M  M  N  N  N  N  N  N  N  N  N  N  N  N  N  N  N  N  O  O  O  O  O  O  O  O  O  O  O  O  O  O  O  O  P  P  P  P  P  P  P  P  P  P  P  P  P  P  P  P | M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P | A,E,I,M  A,E,I,M,N  A,E,I,M,N,O  A,E,I,M,N,O,P  B,A  -  B,C  B,C,D  B,A,E  B,F  B,C,G  B,C,D,H  B,A,E,I  B,F,J  B,C,G,K  B,C,D,H,L  B,A,E,I,M  B,F,J,N  B,C,G,K,O  B,C,D,H,L,P  C,B,A  C,B  -  C,D  C,B,A,E  C,B,F  C,G  C,D,H  C,B,A,E,I  C,B,F,J  C,G,K  C,D,H,L  C,B,A,E,I,M  C,B,F,J,N  C,G,K,O  C,G,K,O,P  D,C,B,A  D,C,B  D,C  -  D,C,B,A,E  D,C,B,F  D,C,G  D,H  D,C,B,A,E,I  D,C,B,F,J  D,C,G,K  D,H,L  D,C,B,A,E,I,M  D,C,B,F,J,N  D,CG,K,O  D,H,L,P  E,A  E,F,B  E,F,G,C  E,F,G,H,D  -  E,F  E,F,G,  E,F,G,H  E,I  E,F,J  E,F,G,K  E,F,G,H,L  E,I,M  E,F,J,N  E,F,G,K,O  E,F,G,H,L,P  F,B,A  F,B  F,B,C  F,B,C,D  F,E  -  F,G  F,G,H  F,J,I  F,J  F,J,K  F,J,K,L  F,J,N,M  F,J,N  F,J,N,O  F,J,N,O,P  G,C,B,A  G,C,B  G,C  G,C,D  G,F,E  G,F  -  G,H  G,K,J,I  G,K,J  G,K  G,K,L  G,K,O,N,M  G,K,O,N  G,K,O  G,K,P  H,D,C,B,A  H,D,C,B  H,D,C  H,D  H,G,F,E  H,G,F  H,G  -  H,L,K,J,I  H,L,K,J  H,L,K  H,L  H,L,P,O,N,M  H,L,P,O,N  H,L,P,O  H,L,P  I,E,A  I,J,F,B  I,J,K,G,C  I,J,K,L,H,D  I,E  I,J,F,B  I,J,K,G,C  I,J,K,L,H  -  I,J  I,J,K  I,J,K,L  I,M  I,J,N  I,J,K,O  I,J,K,L,P  J,F,B,A  J,F,B  J,K,G,C  J,K,L,H,D  J,F,E  J,F  J,K,G  J,K,L,H  J,I  -  J,K  J,K,L  J,N,M  J,N  J,N,O  J,N,L,P  K.G.C.B.A  K,G,C,B  K,G,C  K,G,C,D  K,G,F,E  K,G,F  K,G  K,G,H  K,J,I  K,J  -  K,L  K,O,N,M  K,O,N  K,O  K,O,P  L,H,D,C,B,A  L,H,D,C,B  L,H,D,C  L,H,D  L,H,G,F,E  L,H,G,F  L,H,G  L,H  L,K,J,I  L,K,J  L,K,  -  L,P,O,N,M  L,P,O,N  L,P,O  L,P  M,I,E,A  M,N,J,F,B  M,N,O,K,G,C  M,N,O,P,L,H,D  M,I,E  M,N,J,F  M,N,O,K,G  M,N,O,P,L,H  M,I  M,N,J  M,N,O,K  M,N,O,P,L  -  M,N  M,N,O  M,N,O,P  N,J,F,B,A  N,J,F,B  N,J,F,B,C  N,J,F,B,C,D  N,J,F,E  N,J,F  N,J,F,G  N,J,F,G,H  N,J, I  N,J  N,J,K  N,J,K,L  N,M  -  N,O  N,O,P  O,K,G,C,B,A  O,K,G,C,B  O,K,G,C  O,K,G,C,D  O,K,G,F,E  O,K,G,F  O,K,G,F,G  O,K,G,H  O,K,F,I  O,K,J  O,K  O,K,L  O,N,M  O,N  -  O,P  P,L,H,D,C,B,A  P,L,H,D,C,B  P,L,H,D,C  P,L,H,D  P,L,H,G,F,E  P,L,H,G,F  P,L,H,G  P,L,H  P,L,K,J,I  P,L,K,J  P,L,K  P,L  P,O,N.M  P,O,N  P,O  - | 3  4  5  6  1  0  1  2  2  1  2  3  3  2  3  4  4  3  4  5  2  1  0  1  3  2  1  2  4  3  2  3  5  4  3  4  3  2  1  0  4  3  2  1  5  4  3  2  6  5  4  3  1  2  4  4  0  1  2  3  1  2  3  4  2  3  4  5  2  1  2  3  1  0  1  2  2  1  2  3  3  2  3  4  3  2  1  2  2  1  0  1  3  2  1  2  4  3  2  2  4  3  2  1  3  2  1  0  4  3  2  1  5  4  3  2  2  3  4  5  1  3  4  4  0  1  2  3  1  2  3  4  3  2  3  4  2  1  2  3  1  0  1  2  2  1  2  3  4  3  2  3  3  2  1  2  2  1  0  1  3  2  1  2  5  4  3  2  4  3  2  1  3  2  1  0  4  3  2  1  3  4  5  6  2  3  4  5  1  2  3  4  0  1  2  3  4  3  4  5  3  2  3  4  2  1  2  3  2  0  1  2  5  3  3  4  4  3  4  3  3  2  1  2  2  1  0  1  6  5  4  3  5  4  3  2  4  3  2  1  3  2  1  0 |