There is a source (S) and destination (D) and a spacecraft has to go from S to D. There are N number of wormholes in between  
which has following properties:

* Each wormhole has an entry and an exit.
* Each wormhole is bi-directional i.e. one can enter and exit from any of the ends.
* The time to cross the wormhole is given and the space craft may or may not use the wormhole  
  to reach D.
* The time taken to travel outside wormhole between two points (x1, y1) and (x2, y2) is given by a formula

|x1 - x2| + |y1 - y2|

where, (x1, y1) and (x2, y2) are the co-ordinates of two points.

The co-ordinates of S and D are given and we have to find the minimum time to reach D from S.

Note: It’s not mandatory to consider all the wormholes

sample input: source=(0,0), destination(100,100), warmholes=3 .  
coordinates are: (1,2),(120,120)  
(4,5),(120,100)  
(6,8),(150,180)  
Sample output=48