for all test cases.

It is well known that the Moon of Valencia is magical. Everyone talks about a mystery that happens at night. People remember what time they entered the first pub, what time they arrived to the hotel and how happy they arrived, but nobody remembers the bars and pubs they visited.

However, the application uses a map with the location of each bar or pub. Each bar or pub produces a different flavor of satisfaction when tasted. Each person may vary when they decide to enter the map, but for getting the satisfaction must stay at least 15 minutes. It is well known that the Moon of Valencia is magical. Everyone talks about a mystery that happens at night. People remember what time they entered the first pub, what time they arrived to the hotel and how happy they arrived, but nobody remembers the bars and pubs they visited.

The application will inform customers with one of all the possible sequences of bars and pubs. Customers can decide not to visit a bar or pub, i.e., they can use a path from the origin to the target and to enter in a bar or pub the time they like, but for getting the satisfaction must stay at least 15 minutes. People can walk at a speed of 4 km/h, can stay in a bar or pub one. If the amount of minutes is not an integer the remaining seconds should be considered a portion of a minute, i.e., 30 seconds imply 0.5 minutes. People walk at a speed of 4 km/h, can stay in a bar or pub one. If the amount of minutes is not an integer the remaining seconds should be considered a portion of a minute, i.e., 30 seconds imply 0.5 minutes.

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