#### Time limit: 0.6s Memory limit: 64M

Two magicians named Alice and Bob participate in a challenge. The two participate in a race on a circular track split into K equal-length sectors, determined by the points  $P_0, P_1, \ldots, P_{K-1}$ .

- Alice starts at point  $P_a$  and runs through  $S_a$  sectors per second.
- Bob starts at point  $P_b$  and runs through  $S_b$  sectors per second.

If at any point in the race the distance between the two is less than D, Alice will use her magic to instantly push Bob a minimum distance such that the two magicians remain at a distance greater or equal to D. The winning conditions are as follows:

- Alice wins if it **is possible** that sometime during the race, the sum of the shortest distance (running on the circular track) between herself to  $P_0$  and Bob to  $P_0$  is prime.
- Bob wins if Alice cannot.

In a given scenario, who wins?

# **Input Specification**

The first line of input will contain the integers K ( $0 < K \le 1000$ ) and D ( $0 \le D < \frac{K}{2}$ ).

The second line of input will contain the integers  $S_a$  and  $S_b$ . The third line of input will contain the integers  $P_a$  and  $P_b$ .

# **Output Specification**

Either Alice or Bob, identifying the winner.

### Constraints

- $S_a, S_b, P_a, P_b < K$ .
- At least a turn is executed.
- In case Alice and Bob are on the same segment, Bob is pushed behind Alice.

### Sample Input

62			
23			
0 1			

# Sample Output

Alice

# **Explanation**

At the start, the positions of (Alice, Bob) are (0, 1), but immediately this changes to (0, 2) as Alice pushes Bob. In the second instant, we have the positions (0 + 2 = 2, 2 + 3 = 5), such that the sum of distances to  $P_0$  is (6-2) + (6-5) = 5. Since 5 is a prime number, Alice wins.