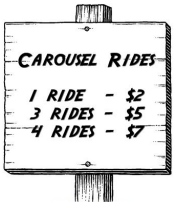
Carousel Rides

Hide

Carl likes to ride the carousel. Carousel operators often offer discounts for buying multiple rides. He wonders which of the discounts provides the best value. Write a program to help him.



Input

The input will contain multiple test cases, up to 100. A test case starts with a line containing two integers n ($1 \leq n \leq 10$) and m ($1 \leq m \leq 20$). Carl will not take advantage of offers that require him to buy more than m tickets. Following this are n lines, each with integers a and b which each represent an offer to buy a tickets for $\$b$.

The input will be terminated by a line containing the characters `0 0`.

Output

For each test case, print `Buy a tickets for $b` for the best offer that matches his requirements. If there are multiple best offers, print the one which buys more tickets. If there is no suitable offer, print `No suitable tickets offered`.

Sample Input 1

```
3 5
1 3
3 5
4 7
3 2
3 5
1 3
4 7
3 2
3 6
1 2
2 4
1 3
4 10
0 0
```

Sample Output 1

```
Buy 3 tickets for $5
Buy 1 tickets for $3
Buy 2 tickets for $4
No suitable tickets offered
```

Hide >

Please log in to submit a solution to this problem

Log in