

# Wachovia Bank

Danilo Gheyi is a renowned bank robber. He is known worldwide for accomplishing the most profitable bank robbery, in Fortaleza, Ceará. Danilo and his friends dug a tunnel to get into the main chest. There were some bags, with different amounts of money or jewelry and weight. They had to leave about 50% of the total value, since the truck couldn't carry all the bags.

Danilo wasn't caught, and to show that he can do it all again, he is planning a robbery to one of the safer banks in USA -the Wachovia Bank. He wants your help to maximize the amount stolen, avoiding a huge loss as it happened in Fortaleza.

Write a program that, given the maximum weight the truck is able to carry and the information about each bag in the bank, determine the maximum value that Danilo can steal.

## Input

The input consists of several instances. There is an integer  $N$  ( $1 \leq N \leq 200$ ) in the first line; it stands for the number of instances. The first line of each instance contains two integers,  $K$  and  $M$  ( $8 \leq K \leq 1000$  and  $1 \leq M \leq 50$ ) representing, respectively, the maximum weight the truck can handle and the amount of bags in the bank. The next  $M$  lines describe each bag with two integers  $A$  and  $B$  ( $8 \leq A \leq 200$  and  $1 \leq B \leq 25$ ): the weight and the value of the bag, respectively.

## Output

For each instance output a sentence "Hey stupid robber, you can get  $P$ .", and  $P$  represents the maximum value Danilo can steal.

## Example

### Input:

```
3
34 5
178 12
30 1
13 7
34 8
87 6
900 1
900 25
100 10
27 16
131 9
132 17
6 5
6 23
56 21
100 25
1 25
25 25
100 2
```

### Output:

```
Hey stupid robber, you can get 8.
```

Hey stupid robber, you can get 25.

Hey stupid robber, you can get 99.