

# Working in Beijing

Mr. M is an undergraduate student of FDU. He finds an intern position in Beijing, so that he cannot attend all the college activities. But in some conditions, he must come back to Shanghai on certain date. We can assume the important activities that Mr. M must attend are occupy a whole day. Mr. M must take flight to Shanghai before that day and leave after that day. On the other hand, Mr. M is absent in Beijing and he will lose his salary for his absent.

Sometimes the cost of flight is much higher than the loss of salary, so to save the cost on the travel, Mr. M can stay in Shanghai to wait for another important date before he back to Beijing.

Now, Mr. M knows all of the important date in the next year. Help him schedule his travel to optimize the cost.

## Input

The input contains several test cases. The first line of single integer indicates the number of test cases.

For each test case, the first line contains three integers: **n**, **a** and **b**, denoting the number of important events, the cost of a single flight from Beijing to Shanghai or Shanghai to Beijing and the salary for a single day stay in Beijing. ( $1 \leq n \leq 100000$ ,  $1 \leq a \leq 1000000000$ ,  $1 \leq b \leq 100$ )

Next line contains **n** integers  $t_i$ , denoting the time of the important events. You can assume the  $t_i$  are in increasing order and they are different from each other. ( $0 \leq t_i \leq 10000000$ )

## Output

For each test case, output a single integer indicating the minimum cost for this year.

## Example

**Input:**

```
2
1 10 10
5
5 10 2
5 10 15 65 70
```

**Output:**

```
Case #1: 30
Case #2: 74
```

**Warning: large input/output data, be careful with certain languages**