

Stock buy and sell

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Problems

The cost of stock on each day is given in an array $A[]$ of size N . Find all the days on which you buy and sell the stock so that in between those days your profit is maximum.

Input:

First line contains number of test cases T . First line of each test case contains an integer value N denoting the number of days, followed by an array of stock prices of N days.

Output:

For each testcase, output all the days with profit in a single line. And if there is no profit then print "**No Profit**".

Constraints:

$$1 \leq T \leq 100$$

$$2 \leq N \leq 10^3$$

$$0 \leq A_i \leq 10^4$$

Example

Input:

3
7

100 180 260 310 40 535 695
 4
 100 50 30 20
 10
 23 13 25 29 33 19 34 45 65 67

Output:

(0 3) (4 6)
 No Profit
 (1 4) (5 9)

Explanation:

Testcase 1: We can buy stock on day 0, and sell it on 3rd day, which will give us maximum profit.

Note: Output format is as follows - (buy_day sell_day) (buy_day sell_day)
 For each input, output should be in a single line.

**** For More Input/Output Examples Use 'Expected Output' option ****

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