## 11059 Maximum Product

Given a sequence of integers $S=\left\{S_{1}, S_{2}, \ldots, S_{n}\right\}$, you should determine what is the value of the maximum positive product involving consecutive terms of $S$. If you cannot find a positive sequence, you should consider 0 as the value of the maximum product.

## Input

Each test case starts with $1 \leq N \leq 18$, the number of elements in a sequence. Each element $S_{i}$ is an integer such that $-10 \leq S_{i} \leq 10$. Next line will have $N$ integers, representing the value of each element in the sequence. There is a blank line after each test case. The input is terminated by end of file (EOF).

## Output

For each test case you must print the message: 'Case \#M: The maximum product is $P$.', where $M$ is the number of the test case, starting from 1 , and $P$ is the value of the maximum product. After each test case you must print a blank line.

## Sample Input

3
$24-3$

5
$25-12-1$

## Sample Output

Case \#1: The maximum product is 8.
Case \#2: The maximum product is 20.

