Problem A. Ordinary Number

Time limit 2000 ms
Mem limit 1048576 kB

Problem Statement

We have a permutation $p = \{p_1,\ p_2,\ \ldots,\ p_n\}$ of $\{1,\ 2,\ \ldots,\ n\}$.

Print the number of elements p_i $(1 < i < n)$ that satisfy the following condition:

- p_i is the second smallest number among the three numbers p_{i-1}, p_i, and p_{i+1}.

Constraints

- All values in input are integers.
- $3 \leq n \leq 20$
- p is a permutation of $\{1,\ 2,\ \ldots,\ n\}$.

Input

Input is given from Standard Input in the following format:

n
$p_1\ p_2\ \cdots\ p_n$

Output

Print the number of elements p_i $(1 < i < n)$ that satisfy the condition.

Sample 1

Input	Output
5 1 3 5 4 2	2

$p_2 = 3$ is the second smallest number among $p_1 = 1$, $p_2 = 3$, and $p_3 = 5$. Also, $p_4 = 4$ is the second smallest number among $p_3 = 5$, $p_4 = 4$, and $p_5 = 2$. These two elements satisfy the

condition.

Sample 2

Input	Output
9 9 6 3 2 5 8 7 4 1	5