比赛主页 团队提交

时间限制：C/C++/Rust/Pascal 2秒，其他语言4秒

空间限制：C/C++/Rust/Pascal 1024 M，其他语言2048 M

Special Judge, 64bit IO Format: %lld

题目描述 ✗

In the early 11th century A.D., there were groups of Danish invaders known as Vikings in England.

Askeladd, a leader of a group of Viking pirates, searches for treasure on this fertile land. After attacking a village one night, they collected a total of n treasures, ordered in a line, with values $a_1, a_2, \ldots, a_n$, respectively. Askeladd's group had an agreement on how to divide these treasures: Askeladd, as the leader, would take **the first** k treasures, i.e., treasures with values $a_1, a_2, \ldots, a_k$, while the remaining pirates would divide the rest. However, as it was too late, they decided to make this division the next morning.

Askeladd, being cunningly smart, sneaked out at night and tried to rearrange the treasures so that he could have a larger total value of the treasures. However, for certain reasons, he was only allowed to **swap two adjacent treasures** at a time. Additionally, each swap would cost Askeladd a value of c, considering the risk of being discovered by the other pirates. Askeladd can perform any number (possibly zero) of swaps.

Askeladd wonders what the maximum profit he can gain is (equal to the total value of all treasures he can get minus the number of total costs from the swaps).
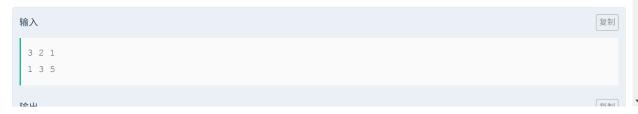
输入描述:

The first line contains three integers n, k and c $(0 \le k \le n \le 3 \times 10^5, 0 \le c \le 10^9)$, denoting the number of treasures, the number of treasures Askeladd is promised to take from the first, and the cost to swap two adjacent treasures, respectively.

The next line contains n integers $a_1, a_2, \ldots, a_n$ $(1 \le a_i \le 10^9)$, denoting the values of the treasures in order.

输出描述:

Output one integer in a line, denoting the maximum profit Askeladd can gain.

示例1

输入 复制

```
3 2 1
1 3 5
```

输出 复制