

```
#####C++/Rust/Pascal 1#####2#
#####C++/Rust/Pascal 512 M#####1024 M
64bit IO Format: %lld
```

#####

Given n rectangular blocks, where the i -th block has dimensions $1 \times i$. You need to combine **all** blocks to form a solid rectangle (no overlaps or empty spaces allowed). Find the minimal perimeter of the resulting rectangle.

It is guaranteed that you can always form a solid rectangle under the problem constraints.

#####:

The first line contains an integer n ($1 \leq n \leq 2 \times 10^5$), representing the number of blocks.

#####:

Output a single integer representing the minimal perimeter of the formed rectangle.

##1

##

1

##

4

##2

##

6

##

C++clang++18

1

ACM

#####

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