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**Maximum of minima****P38906\_en**

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Write a function

```
long long maxmin(const vector<long long>& V);
```

that returns

$$\max_{0 \leq i < j < n} \{ \min(V[i], V[j]) \times (j - i) \} \quad .$$

For instance, the answer for  $[9, 7, 4, 1]$  is 8, corresponding to the numbers 9 and 4, which are at distance 2. As another example, the answer for a vector with eleven  $10^9$  is  $10^{10}$ .

**Precondition**

@V@ has between 2 and  $10^5$  numbers, all between 0 and  $10^9$ .

**Observation**

The expected solution has cost  $\Theta(V.size())$ , with a small constant.

**Observation**

You only need to submit the required procedure; your main program will be ignored.

**Problem information**

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