Problem C
Radio Commercials

Problem ID: commercia
CPU Time limit: 1 secor
Memory limit: 1024 ME

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Source: KTH training 20

Our favorite Onid Pizza would like to have a commercial aired in a radio. Since they are close to KTH, they want to attract mainly students. It's not a good idea to have the commercial aired between 8 am and 5 pm, because most of the students are in the school and don't listen to the radio. Onid made a survey and now they know how many students listen to the radio at each point of the day.

They also know that if each student listens to a commercial, he or she will spend one Swedish crown on pizza in expectation. Thus if 100 students listen to a commercial, Onid will increase their income by 100 crowns on average from selling more pizza.

Of course, Onid Pizza has to pay a fixed amount every time the commercial is played. The radio has a commercial break every 15 minutes. Unfortunately, Onid can choose only one continuous sequence of commercial breaks, for example all breaks from 5 pm to 8 pm. Help them to choose a continuous sequence of commercial breaks such that their profit is maximal.

Input

The first line of the input contains two space separated positive integers N, P – the total number of commercial breaks in a day and the price of one commercial break. You can assume that $N \leq 100\,000$ and $P \leq 1\,000$. On the next line there are N space-separated integers – the i'th integer denotes how many students listen to the i-th commercial break. There are always at most $2\,000$ students listening.

Output

Output contains one line with one integer – the biggest expected extra profit Onid can get by selecting a continuous sequence of commercial breaks.

Sample Input 1

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6 20
18 35 6 80 15 21
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Sample Output 1

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61
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