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SPOJ Problem Set (classical)

2

9861. Hotels Along the Croatian Coast

Problem code: HOTELS



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There are N hotels along the beautiful Adriatic coast. Each hotel has its value in Euros.

Sroljo has won M Euros on the lottery. Now he wants to buy a sequence of consecutive hotels, such that the sum of the values of these consecutive hotels is as great as possible - but not greater than M.

You are to calculate this greatest possible total value.

Input

In the first line of the input there are integers N and M ($1 \leq N \leq 300\,000$, $1 \leq M < 2^{31}$).

In the next line there are N natural numbers less than 10^6 , representing the hotel values in the order they lie along the coast.

Output

Print the required number (it will be greater than 0 in all of the test data).

Example

input

```
5 12
2 1 3 4 5
```

output

```
12
```

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input

```
4 9
7 3 5 6
```

output

```
8
```

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2012-04-09 02:00:03 [qwerty](#)

what will be the output for

4 10

26 1 26 1

2012-03-03 14:29:23 [aragon](#)

@Ayush: 3+4+5=12(is the answer)

2012-01-07 18:46:20 [Krishnan Nakul](#)

thanks @ Fajri Rahmat

consecutive is the key...

2011-11-05 04:16:12 [Rachmawan Atmaji Perdana](#)

how can we avoid to use a lot of branching?

2011-11-04 17:50:11 [mashimura](#)

2011-11-04 17:58:11 [neerajcrespo](#)
may I know, which algorithm is best suited for this problem?

2011-11-03 13:40:03 [Vishnu Ramesh Maroli](#)
I got TLE. Help!

2011-11-01 12:30:27 [Fajri Rahmat](#)
key: consecutive....D

Last edit: 2011-11-02 13:52:55

2011-11-01 07:53:36 [Ayush](#)
@Pranay: thanks, got AC :) (silly mistake)

2011-11-01 07:37:37 [Pranay](#)
@Ayush: 3+4+5=12

2011-11-01 07:14:54 [Ayush](#)
in example1:
first consecutive selection - 2 1 3 4 = 10
second consecutive selection - 1 3 4 5 = 13
so how is the answer 12?

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