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SPOJ Problem Set (classical)                                          2

## 9861. Hotels Along the Croatian Coast

### Problem code: HOTELS

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 ($1 \le N \le 300\,000$, $1 \le M < 2^{31}$).

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 | input |
|---|---|
| 5 12 | 4 9 |
| 2 1 3 4 5 | 7 3 5 6 |
| **output** | **output** |
| 12 | 8 |

| | |
|---|---|
| Added by: | Adrian Satja Kurdija |
| Date: | 2011-10-30 |
| Time limit: | 1s |
| Source limit: | 50000B |
| Languages: | All |
| Resource: | that would be me |

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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 17:58:11 **psersioroono**

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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