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Xsquare And Coin Collection

Attempted by: **1143** / Accuracy: **65%** / Maximum Score: **20** / ★★★★★ 0 Votes

Tag(s): Ad-Hoc, Easy, Implementation

PROBLEM   **EDITORIAL**   **ANALYTICS**

Xsquare loves to play with the coins very much. Today , he has **N** stacks of coins . Each stack of coins has some non zero height H_i equal to the number of coins on that stack (considering all the coins are identical and each coin has a height of **1 unit**) .

In one move, Xsquare can select any number of consecutive stacks of coins such that the height of each selected stack of coins $H_i \leq K$. Once such a sequence of stacks is chosen , Xsquare can collect any number of coins from the chosen sequence of stacks .

Xsquare wonders what is the maximum number of coins that he can collect this way ?

INPUT

First line of input contains a single integer **T** denoting the number of test cases . First line of each test case contains two space separated integers **N** and **K** where **N** being the number of stacks of coins. Second line of each

test case contains **N** space separated integers denoting the number of coins H_i on each stack .

OUTPUT

For each test case , Print the maximum number of coins Xsquare can collect following the above gaming strategy.
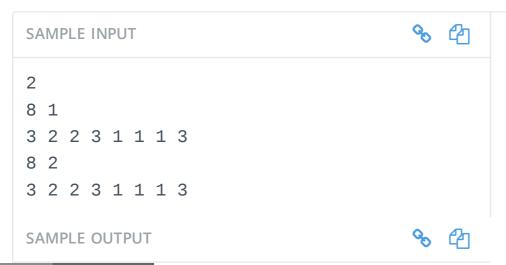
CONSTRAINTS

$1 \leq T \leq 10^5$

$1 \leq N \leq 10^5$

$1 \leq K \leq 10^9$

$1 \leq H_i \leq 10^9$

Note :

sum of **N** over all the test case will not exceed 10^6.

```
2
8 1
3 2 2 3 1 1 1 3
8 2
3 2 2 3 1 1 1 3
```

```
3
4
```

Explanation

Test 1 : N = 8 , K = 1 3 2 2 3 1 1 1 3 We can collect coins from stacks numbered 5 , 6 and 7 .

Test 2 : N = 8 , K = 2 3 2 2 3 1 1 1 3 We can collect coins from stacks numbered 2 and 3 .

Time Limit:	3.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Marks are awarded when all the testcases pass.
Allowed Languages:	C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Scala 2.11.8, Swift, Visual Basic

CODE EDITOR

Initializing Code Editor...

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BEST SUBMISSIONS

LANGUAGE: C

⏱ TIME (sec)

0.806668

📚 MEMORY (KiB)

64

by RAJAT PRAKASH

VIEW BEST SUBMISSION   VIEW ALL SUBMISSION

CONTRIBUTOR

AUTHOR
ma5termind

TESTER
Prateek Gupta

THIS PROBLEM WAS ASKED IN

CHALLENGE NAME

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Ground Floor, Salarpuria Business Center,
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Koramangala Industrial Layout,
Bangalore, Karnataka 560095, India.

✉ contact@hackerearth.com

☎ +91-80-4155-4695

☎ +1-650-461-4192

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