January Circuits '17

LIVE

Jan 20, 2017, 09:00 PM IST - Jan 28, 2017, 09:00 PM IST

Share Market

Max. Marks: 100

One fine day, Monk decided to get into the share market. Being a final year student, he doesn't have a huge amount of money to invest. However, he has N antique items each worth $W[i]$ units, which he is ready to sell to buy any of the K shares to start his business. Cost of j^{th} share is $C[j]$ units. Is there a way to make $C[j]$ units using exactly $X[j]$ items i.e. $C[j]$ = sum of worth of exactly $X[j]$ items.

He is really tired from all the classes and exams. Hence, he asks you to tell him if he can buy a particular share using X items where for each share each item is only considered once and for all shares each item is available.

Input

First line of input contains T denoting number of test cases.
Each test case begins with a single integer N denoting the number of antique items which he is ready to sell. Next line contains N integers separated by a space representing worth $W[i]$ units of each item. Next line contains an integer K denoting the number of shares Next line contains an array of K integers representing X, each integer represents $X[i]$. Last line contains an array of K integers representing cost of each share $C[i]$.

Output

For each testcase, print K lines. Each line of the test-case represents if it possible to buy a share i having cost $C[i]$ units using exactly $X[i]$ items. Print "Yes" if it is possible, "No" otherwise.

Constraints

- $1 \leq T \leq 1000$
- $1 \leq N \leq 50$
- $1 \leq W[i] \leq 100$
- $1 \leq K \leq 500$
- $1 \leq X[i] \leq 50$

- $1 \leq C[i] \leq 5000$

SAMPLE INPUT

```
1
2
1 2
3
2 2 1
3 4 2
```

SAMPLE OUTPUT

```
Yes
No
Yes
```


Explanation

Here, we have one single testcase where worth of antique items are {1,2}. Now explanation regarding the purchase of 3 shares is as follow.

- Cost of first share is 3 and he wishes to buy it using 2 antique items which is possible by selling both the antique items 1 + 2 = 3 hence Yes
- Cost of second share is 4 and he wishes to buy it using 2 antique items which is not possible by selling any combination of antique items hence No
- Cost of third share is 2 and he wishes to buy it using 1 antique items which is possible by selling second antique item hence Yes

Time Limit:	1.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Marks are awarded if any testcase passes.
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, Swift, Visual Basic

CODE EDITOR

Enter your code or Upload your code as file. Save C (gcc 4.8.4)

```
1 #include <stdio.h>
2
```

```
3  int main()
4  {
5      printf("Hello World!\n");
6      return 0;
7  }
8
```

5

LIVE EVENTS

1:1

Provide custom input

COMPILE & TEST SUBMIT

Press Ctrl-space for autocomplete suggestions. POWERED BY code table

Tip: You can submit any number of times you want. Your best submission is considered for computing total score.

Your Rating: Like 0 Share Tweet

Get Badges
Campus Ambassadors
Get Me Hired
Privacy
Terms of Service

HackerEarth Challenges
College Challenges
College Ranking
Organise Hackathon
Hackathon Handbook
Competitive Programming
Open Source

5
LIVE EVENTS

EMPLOYERS

Developer Sourcing
Lateral Hiring
Campus Hiring
Hackathons
FAQs
Customers

REACH US

Ground Floor, Salarpuria Business Center,
4th B Cross Road, 5th A Block,
Koramangala Industrial Layout,
Bangalore, Karnataka 560095, India.

contact@hackerearth.com
+91-80-4155-4695
+1-650-461-4192