



E EVENTS

January Circuits '17

DAY HRS MIN SEC

LIVE

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

INSTRUCTIONS	PROBLEMS	SUBMISSIONS	LEADERBOARD	ANALYTICS	JUDGE	
← Problems / Share Mar	ket					
Share Marl	ket					

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

Max. Marks: 100

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].

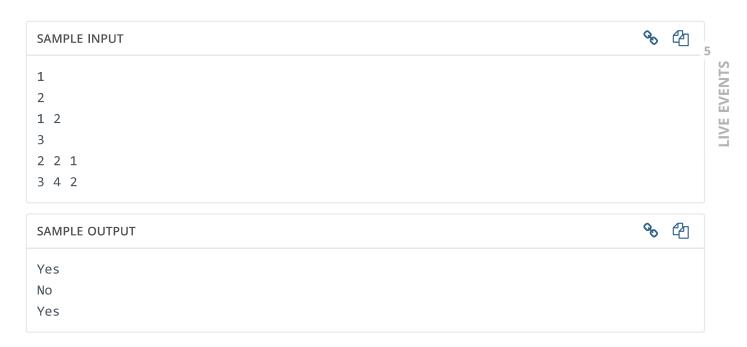
Output

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

• $1 \le C[i] \le 5000$



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

4 {

5 6

7 }

8

int main()

return 0;

printf("Hello World!\n");

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

ABOUT US HACKEREARTH DEVELOPERS API Blog **AMA Engineering Blog** Chrome Extension Code Monk Updates & Releases CodeTable Judge Environment Solution Guide HackerEarth Academy Team Careers Developer Profile Problem Setter Guide Practice Problems In the Press Resume

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

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











© 2017 HackerEarth