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Let S be the sum of diameters of these N circles. Your task is to find the

Okay

maximum value of S.

- Input ullet The first line of the input contains a single integer T denoting the number of
- The first line of each test case contains a single integer N.

test cases. The description of T test cases follows.

- The second line contains N space-separated integers A_1, A_2, \ldots, A_N .
- The third line contains N space-separated integers B_1, B_2, \ldots, B_N .

Output

For each test case, print a single line containing one integer — the maximum value of S. It is guaranteed that this value is always an integer.

Constraints

- $1 \le T \le 50$
- $1 \le N \le 10^4$
- $1 \le A_i, B_i \le 10^9$ for each valid i

Subtasks

Subtask #1 (20 points):

- $A_1 = A_2 = \ldots = A_N$
- $B_1 = B_2 = \ldots = B_N$

Subtask #2 (80 points): original constraints

4★ <u>sahi1422</u>

Example Input

8 8 10 12

15 20 3 5

20 20 20

10 10 10

Example Output

30 30

Explanation

Author:

Example case 1: Four rectangles with dimensions 8×3 , 8×5 , 10×20 and 12 imes 15 lead to an optimal answer.

https://discuss.codechef.com/problems/SNUG_FIT Editorial: cakewalk, feb20, geometry, greedy, sahi1422, tmwilliamlin Tags: 21-01-2020 Date Added: Time Limit: 1 secs Source Limit: 50000 Bytes C, CPP14, JAVA, PYTH, PYTH 3.6, PYPY, CS2, PAS fpc, PAS Languages: gpc, RUBY, PHP, GO, NODEJS, HASK, rust, SCALA, swift, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS, ERL, TCL, SQL, kotlin, PERL6, TEXT, SCM chicken, PYP3, CLOJ, R, COB, FS

Submit (Practice)

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CodeChef - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, computer programming, and programming contests. At CodeChef we work hard to revive the geek in you by hosting a programming contest at the start of the month and two smaller programming challenges at the middle and end of the month. We also aim to have training sessions and discussions related to algorithms, binary search, technicalities like array size and the likes. Apart from providing a platform for programming competitions, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of computer programming.

Practice Section - A Place to hone your 'Computer Programming Skills' Try your hand at one of our many practice problems and submit your solution in the language of your choice. Our programming contest judge accepts solutions in over 55+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better

prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

FAQ's

Compete - Monthly Programming Contests, Cook-off and Lunchtime

Here is where you can show off your computer programming skills. Take part in our 10 days long monthly coding contest and the shorter format Cook-off and Lunchtime coding contests. Put yourself up for recognition and win great prizes. Our programming contests have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

Programming Tools	Practice Problems	<u>Initiatives</u>	<u>Policy</u>
Online IDE	<u>Easy</u>	Go for Gold	Terms of Service
<u>Upcoming Coding Contests</u>	<u>Medium</u>	CodeChef for Schools	Privacy Policy
Contest Hosting	<u>Hard</u>	Campus Chapters	Refund Policy
Problem Setting	<u>Challenge</u>	CodeChef for Business	Code of Conduct
CodeChef Tutorials	<u>Peer</u>		Bug Bounty Program
CodeChef Wiki	School		