

TeamsCode Fall 2020 Online Contest Logistics

Saturday November 21st, 1:00 PM - 5:00 PM Pacific Time

Cont	est Schedule
	1:00-1:30 - Opening Ceremony and review of rules
	1:30-4:30 - Coding time! Last submission by 4:30 PM
	4:30-5:00 - Raffle and top-scoring winners announced + Closing ceremony
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Gene	eral Rules
	All contestants must be a middle or high school student (rising 6th - grad senior)
	Teams may not receive any help from anyone outside of their team
	Teams may use multiple computers and submit answers in multiple languages
	Pre-written code and online reference guides are allowed
	There are two divisions: Intermediate and Advanced. The intermediate division
	is intended for students with less than a year of coding experience, and the
	advanced division is intended for everyone who has taken at least one
	programming class. The registration and problems are different for each
	division. The link to the intermediate contest is
	teamscode-context.xjoi.net/fall2020int, and the link to the advanced contest is
	teamscode-context.xjoi.net/fall2020adv.
Prob	lem Format
	Description: an overview of the problem and its backstory.
	Input Format: specifies how the input will be formatted, including constraints on
	the size of parameters.
	Output Format: specifies how the output should be formatted - if you don't
	follow this format exactly, your answer will most likely be marked as incorrect.
	Sample Input: provides a sample input to help you test your code.
	Sample Output: provides the expected output to the sample input.
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	nitting Solutions
_	Solutions will be submitted through the contest page listed above. The code for
	each problem should be copy-pasted into the box that appears after clicking
	"Submit Code". The file size containing your code must not exceed 50 KB.
	The file size containing your code must not exceed 50 KB.
_	Your program must run in under 3,000 ms (3 seconds) The program's memory must not exceed 256 MB
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П	Use Standard Input in your code. This means that test cases are directly typed		
	into the console. Here's what standard input is for each of the allowed		
	languages:		
	Java: Scanner (System.in)	C++: cin >>	
	Python: input()	C: scanf();	
	Pascal: readLn()		
	Use Standard Output in your cod	de. This means that the output directly prints to	
	the console. Here's what standar	d output looks like for each of the languages:	
	<pre>Java: System.out.println()</pre>	C++: cout <<	
	<pre>Python: print()</pre>	<pre>C: printf();</pre>	
	Pascal: writeLn()		
Scori	ing		
	There are 15 total problems: 5 easy, 5 medium, and 5 hard problems		
	☐ Each problem has 3 test cases. Easy test cases are worth 10 points each, Medium test cases are worth 20 points each, and Hard test cases are worth 30 points each - Maximum of 900 points if all problems are correct		
	Output must match exactly with expected output to receive points for the test		
	case - there is no partial credit.		
	Ties will be broken by the timesta	amp on the last correctly submitted problem.	
Prize	es		
	 ☐ The top 3 scoring teams from each division will win amazon gift cards. The exact amounts each team will win is listed here: Advanced 1st: \$50 each 2nd: \$25 each 3rd: \$15 each Intermediate 1st: \$25 each 2nd: \$15 each 3rd: \$10 each 		
	, ,	ne raffle ticket once you submit your first	
	solution. One additional raffle ticket will be added for anyone who referred		
_	others to the contest during regis		
	•	last half hour of the contest using a random	
	number generator - we will email those selected for shipment details		
	immediately following the contes		
		olaroid Now Camera, Active Noise-Cancelling	
	·	h Speaker, Corsair Gaming Keyboard, Wireless	
	Mouse, Desk Lamp, 3 Coding T-S	onirts	

Still have questions? Please don't hesitate to email contact@teamscode.com or chat on the YouTube livestream to get them answered!

Example Problem

You are facing off against a golem. In order to beat it, you must cast a magic spell. You are given two numbers. Your task is to find the largest number possible either by adding or multiplying the two numbers together in order to cast the strongest spell.

Input:

The first line contains an integer L. The following L lines will each contain two numbers, N_1 and N_2 .

Output:

For each set of two numbers, print the largest number possible through either adding or multiplying the two numbers together.

Sample Input:

5

6 12

1 54

2 2

9 - 17

-7 -7

Sample Output:

72

55

4

-8

49

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