## Guidelines of the Online Judge System

### 0. Register your account

Access the CodeForces website with URL https://codeforces.com/enter.

If you already have a CodeForces account, log in directly. If not, Click "Register" to register an account, then log in.

CODE FORCES Sponsored by Telegram		Enter   Register
HOME TOP CONTESTS GYM PROBLEMSET GROUPS	RATING EDU API CALENDAR HELP GRAKN FORCES 🜋 10 YEARSI 🏟	P
Fill in the form to login into Codeforces. You can use <u>Gmail</u> , <u>Facebook</u> or <u>ICPC</u> as an alterna	ative way to enter.	
	Login into Codeforces	
	Handle/Email	
	Password	
	Remember me for a month	
	Login Forgot your password?	
	Use Gmail   Use Facebook   Use ICPC	
	<u>Codeforces</u> (c) Copyright 2010-2020 Mike Mirzayanov The only programming contests Web 2.0 platform Server time: Sep/28/2020 02:05:22 <sup>uTC-7</sup> (h1). Desktop version, switch to <u>mobile version</u> . <u>Privacy Policy</u>	
	Supported by	

## 1. Join Our Group as a Participant

After login, click here to join our group: <u>https://codeforces.com/group/d1x0Mh7PUS/contests</u>

**Remember to choose "Participant" as Membership type.** (The default option is "Spectator", which will not allow you to submit your code.) Then click "Join".

CODEFORCES Sponsored by Telegram					🗼   🚟 💻 syhlalalatesting   Logout
HOME TOP CONTESTS GYM PROBLEMSET	GROUPS RATING	G EDU API	CALENDAR HELP		ρ
CONTESTS MEMBERS STATUS					
Group Contests 🔚				•	<u>CS218</u>
Name	Start	Length			Private
CS218 Homework 3	Jan/27/2021 18:00UTC-8	14:00:00	Before start 4 weeks	Prepared by syhlalala	Spectator
CS 218 Homework 2	Jan/13/2021 18:00 <sup>UTC-8</sup>	14:00:00	Before start 2 weeks	Prepared by syhlalala Before registration 2 weeks	Nomber management
CS218, Homework 1 programming	<u>Jan/04/2021</u> <u>18:00<sup>UTC-8</sup></u>	14:05:59	Before start 6 days	Prepared by syhlalala Before registration 6 days	→ Member management You are not group member yet,
				* Highlighted contests are not put c	Membership type: Participant V

Here you can see the home page of our group, each programming assignment will be released at the corresponding start time. Usually, this is the time that the corresponding assignment is released.

Once it's released, the page will look like this:

oup Contests 🗮				► 1	<u>CS218</u>
Name	Start	Length			Private
CS218 Homework 3	Jan/27/2021	14:00:00	Before start 4 weeks	Prepared by syhlalala	Participant
	18:00010-0			Before registration 4 weeks	<b>\$</b>
CC 210 Harrawark 2	Jan/13/2021	14.00.00	Defense stant Duncelie	Prepared by syhlalala	~
CS 218 Homework 2	18:00UTC-8	14:00:00	Before start 2 weeks	Before registration 2 weeks	
			Current standings	Prepared by syhlalala	→ Member management
CS218, Homework 1 programming	Dec/28/2020	14:05:59	Running		You are the member of the group
Enter »	18:00010-0		13 days	Until closing 13 days	

## 2. Registration for the Contests

After it's released, you can see the page above.

# Click "Register" to register for the contest. You should be registered for the contest to be able to submit.

up Contests 🗮				► <u>-</u>	<u>CS218</u>
Name	Start	Length			Private
CS218 Homework 3	Jan/27/2021	14.00.00	Before start 4 weeks	Prepared by syhlalala	Participant
CS210 Homework 5	<u>18:00<sup>UIC-8</sup></u>	14.00.00	before start 4 weeks	Before registration 4 weeks	<b>\$</b>
CS 218 Homework 2	Jan/13/2021	14.00.00	Before start 2 week	Prepared by syhlalala	8
	<u>18:00<sup>01C-8</sup></u>	14.00.00	before start 2 free	Before registration 2 weeks	→ Member management
CC218 Homework 1 programming	Dec/28/2020		Current stan ings	Prepared by syhlalala	
Enter »	18:00 <sup>UTC-8</sup>	14:05:59	Running 13 days	Register » 🛓 x0	You are the member of the group

Continue clicking **"Register"**, then you will receive a message that "You have been successfully registered".



## 3. Start Programming

Before starting programming, make sure you can see "Registration Completed" displayed here, which means you have successfully registered. If not, try to repeat the registration step.

### Then, click "Enter".

CO	NTESTS MEMBERS STATUS				
	Group Contests 🏣				•
2	Name	Start	Length		
	CS218 Homowork 3	Jan/27/2021	14:00:00	Boforo start 4 wooks	Prepared by syhlalala
	C3218 Homework 5	<u>18:00<sup>UTC-8</sup></u>	14.00.00	Defore start 4 weeks	Before registration 4 weeks
	CS 218 Homework 2	Jan/13/2021	14.00.00	Before start 2 weeks	Prepared by <mark>syhlalala</mark>
	CS 210 Homework 2	<u>18:00<sup>01C-8</sup></u>	14.00.00	before start 2 weeks	Before registration 2 weeks
	CS218, Homework 1 programming	Dec/28/2020	44.05.50	<u>Current standings</u>	Prepared by syhlalala
	Enter »	<u>18:00<sup>UTC-8</sup></u>	14:05:59	Running 13 days	Registration completed <u>x1</u>
	* 788 * 700				* Highlighted contests are not public

You will see the programming problems for this assignment.

Problem	IS				
#			Name		
Δ	Merge Them!			standard input/output 2 s, 256 MB	🖓 😭 👗 🕹
<u>B</u>	Share candies			standard input/output 2 s, 256 MB	4
<u>C</u>	Sort the train			standard input/output 2 s, 256 MB	4
					<u>Complete proble</u>
Questio	ns about problems				
#	Party	When	Ouestion	А	nswer

Click on the name to enter. Then you can see the whole problem.

	06219
A Merce Them!	<u>CS218</u>
A. Merge Hiem:	Private
time limit per test: 2.0 s	Participant
memory limit per test: 256 megabytes	<b>_</b>
input: standard nubut	×
oulput: standard oulput	
not easy to be a teacher - because you need to make all students happy. Yihan is asked to order a list of students by their exam score on lowest to highest). Now all the students stands in a row in front of her. She has learned the merge sort algorithm, so that's exactly	<u>CS218, Homework 1</u> programming
w she plans to do: she will divide the students into the left half and the right half, sort each of them respectively, and then merge them	Contest is running
o a sorted row.	13 days
e core part in merge sort is to merge two sorted arrays (subset of students) into one. However, students are incoordinate because some	Contestant
$\cup$ B, let's call the student X, will be very unhappy because now everyone knows that b are integra, the student with the toronal store in $\cup$ B, let's call the student X, will be very unhappy because now everyone knows that be to be different to be a store in the state of the store in the	1
$e^{A}$ some cancies to make A happy again, in particular, the number of cancies A needs is the uniference between A's score and the bast score in the metric result $A^{A}$ is core and the bast score in the metric result $A^{A}$ is the anise of the result in the same lowest score) they all here the same	
mber of candies.	→ Submit?
an knows the initial order of the students and their scores. She wants to know how many candies she needs to prepare to finish the task merge-sorting all the students's score, while keeping everyone happy.	Language: GNU GCC C11 5.1.0
nut a sale a	Choose 选择文件 未选择任何文件
First line is a single integer $n(1 \le n \le 10^6)$ . Assume $n$ is a power of $2$ so that in merge sort we can always divide it into exactly ves.	Submit
, The There is a state the The There is a state of the the	

#### To submit your code, click "Submit Code". Don't forget to choose your language.



You can also submit a file. After finishing your code, click the **"Submit"** button to submit your answer.

Then you can see whether your answer is correct. If all test cases are passed, it will be judged as "Accepted". If not, means you failed some test cases. You should go back to the "Submit Code" page, review your code, modify it, and resubmit it.

You won't be able to see the test data before the contest ends.

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HOME TO	P CONTESTS	GYM PROBLEMSET	GROUPS RATING	EDU API CALENDAI	R HELP GRAKN FORCES 🜋	10 YEARS!	Ũ				
PROBLEMS SUB	ROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION										
My Submis	sions						•				
#	When	Who	Problem	Lang	Verdict	Time	Memory				
94070335	01:18:52		1 - Merge Them!	Java 11	Wrong answer on test 2	171 ms	0 KB				
94061848	01:08:08		1 - Merge Them!	GNU C++17	Accepted	202 ms	500 KB				
"Accepted" means your answer passed all test cases "Wrong answer" means you failed some of the test cases											

With some of the core operations and functions covered above, you can try clicking on other buttons to explore other features that have not been introduced!

## Happy Coding!

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