

## codeforces 简单介绍

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### 网站

官方 <https://codeforces.com/>

镜像站1 <https://codeforces.ml/>

镜像站2 <https://codeforc.es/>

### 评分系统

Rating	Rank	Color
$x < 1200$	newbie	灰色
$1200 \leq x \leq 1399$	pupil	绿色   $1400 \leq x \leq 1599$
$1600 \leq x \leq 1899$	expert	蓝色

|  $1900 \leq x \leq 2099$  | candidate master | 紫色 |

|  $2100 \leq x \leq 2299$  | master | 黄色 |

|  $2300 \leq x \leq 2399$  | international master | 深黄色 |

|  $2400 \leq x \leq 2599$  | grandmaster | 红色 |

|  $2600 \leq x \leq 2999$  | international grandmaster | 深红色 |

|  $x \geq 3000$  | legendary grandmaster | 黑红色 |

### 比赛类型

Div.1, Div.2, Div.3和Educational Round 和 div.4 和Global

div4 比较少 就出过一场

div3 1600分以下的计分 适合新手的 ak的话也挺有希望的

div2 div1 同一个场次分为两场时候 1900 分及其以上只能参加div1 1900分以下只能参加div2

div2 单独出一场 2100 分以下都是rated

edu 场 2100分以下都是计分的

global 和一些特殊的场 都是针对所有人的。

div3 edu 是有赛后hack的。分数是按照时间制度。（提交一次不对10分钟的罚时）。

其他的是按照分数制度（提交一次不对的话扣50分）

算成绩是按照你的现有分数根据复杂公式（俺也不知道）给你一个预期排名，你打得越好（排名越靠前），加分越多。

打比赛的话只要看rated 还是unrated

### gym场

开启coach mode:

上紫 (1900) 并20/30? 场

上黄 (2100)

### 注册一场比赛

打比赛想要计分的话得事先注册过

Current or upcoming contests					
Name	Writers	Start	Length		
Codeforces Round #693 (Div. 3)	MikeMirzayanov Stepavly Supermagzzz	Jan/04/2021 22:35UTC+8	02:00	Before start 22:52:24	<a href="#">Register »</a> <a href="#">x9919</a> Until closing 24:52:24
Codeforces Round #694 (Div. 1)		Jan/05/2021 22:35UTC+8	02:00	Before start 46:52:23	<a href="#">Register »</a> <a href="#">x308</a> Until closing 46:47:23 *has extra registration?
Codeforces Round #694 (Div. 2)		Jan/05/2021 22:35UTC+8	02:00	Before start 46:52:23	<a href="#">Register »</a> <a href="#">x4048</a> Until closing 46:47:23 *has extra registration?
Codeforces Round #695 (Div. 2)	DS007	Jan/08/2021 22:35UTC+8	02:00	Before start 5 days	Before registration 4 days

1. 点击你想打的比赛的Register

Registration for the contest

### Codeforces Round #693 (Div. 3)

Notice:

**You are registering "out of competition", reason: rating should be between 0 and 1,599 in order to register for the contest**

Terms of  
agreement:

The registration confirms that you:  
\* have read the contest rules  
\* will not violate the rules  
\* will not communicate with other participants, use another person's code for solutions/generators, share ideas of solutions and hacks  
\* will not attempt to deliberately destabilize the testing process and try to hack the contest system in any form  
\* will not use multiple accounts and will take part in the contest using your personal and the single account.

Take part: ☒ as individual participant

Register

2. 确定以参赛者的身份注册

Current or upcoming contests					
Name	Writers	Start	Length		
Codeforces Round #693 (Div. 3)	MikeMirzayanov Stepavly Supermagzzz	Jan/04/2021 22:35UTC+8	02:00	Before start 22:51:10	<a href="#">Registration completed</a> <a href="#">x9939</a>
Codeforces Round #694 (Div. 1)		Jan/05/2021 22:35UTC+8	02:00	Before start 46:51:10	<a href="#">Register »</a> <a href="#">x309</a> Until closing 46:46:10 *has extra registration?
Codeforces Round #694 (Div. 2)		Jan/05/2021 22:35UTC+8	02:00	Before start 46:51:10	<a href="#">Register »</a> <a href="#">x4054</a> Until closing 46:46:10 *has extra registration?
Codeforces Round #695 (Div. 2)	DS007	Jan/08/2021 22:35UTC+8	02:00	Before start 5 days	Before registration 4 days

Contest history

3. 注册完成后会有 **Registration completed** 的字样。这样你打计分的比赛你就会计分。

交题目

以goodbye 2020为例。

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

Problems

#	Name			
A	<a href="#">Bovine Dilemma</a>	standard input/output 1 s, 256 MB		<a href="#">x16475</a>
B	<a href="#">Last minute enhancements</a>	standard input/output 1 s, 256 MB		<a href="#">x14976</a>
C	<a href="#">Canine poetry</a>	standard input/output 2 s, 256 MB		<a href="#">x10106</a>
D	<a href="#">13th Labour of Heracles</a>	standard input/output 2.5 s, 256 MB		<a href="#">x6987</a>
E	<a href="#">Apollo versus Pan</a>	standard input/output 2 s, 256 MB		<a href="#">x4266</a>
F	<a href="#">Euclid's nightmare</a>	standard input/output 2 s, 256 MB		<a href="#">x1929</a>
G	<a href="#">Song of the Sirens</a>	standard input/output 2 s, 256 MB		<a href="#">x461</a>
H	<a href="#">Finding satisfactory solutions</a>	standard input/output 5 s, 1024 MB		<a href="#">x37</a>
I	<a href="#">The Riddle of the Sphinx</a>	standard input/output 1 s, 256 MB		<a href="#">x28</a>

[Complete problemset](#)

[Ask a question](#)

**Good Bye 2020**

Finished

Practice

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

[Start virtual contest](#)

右边16475 14976 10106 这些是通过的人数，你可以通过人数判断题目难度，在比赛过程中也可以通过这个调整做题策略。

一般来说难度是按照顺序递增，但由于种种情况，可能会存在d题比c题简单，或者e题很水，b题很难的情况。

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

My contest submissions

#	When	Who	Problem	Lang	Verdict	Time	Memory
<a href="#">102848054</a>	Dec/31/2020 00:58 UTC+8	<a href="#">DrinkMoreBoilingWater</a>	<a href="#">F - Euclid's nightmare</a>	GNU C++17	Happy New Year!	514 ms	37500 KB
<a href="#">102826378</a>	Dec/30/2020 23:55 UTC+8	<a href="#">DrinkMoreBoilingWater</a>	<a href="#">E - Apollo versus Pan</a>	GNU C++17	Happy New Year!	686 ms	11800 KB
<a href="#">102825623</a>	Dec/30/2020 23:53 UTC+8	<a href="#">DrinkMoreBoilingWater</a>	<a href="#">E - Apollo versus Pan</a>	GNU C++17	Runtime error on pretest 2	30 ms	0 KB
<a href="#">102815775</a>	Dec/30/2020 23:32 UTC+8	<a href="#">DrinkMoreBoilingWater</a>	<a href="#">D - 13th Labour of Heracles</a>	GNU C++17	Happy New Year!	249 ms	25800 KB
<a href="#">102808586</a>	Dec/30/2020 23:19 UTC+8	<a href="#">DrinkMoreBoilingWater</a>	<a href="#">C - Canine poetry</a>	GNU C++17	Happy New Year!	46 ms	2200 KB
<a href="#">102785380</a>	Dec/30/2020 22:47 UTC+8	<a href="#">DrinkMoreBoilingWater</a>	<a href="#">B - Last minute enhancements</a>	GNU C++17	Happy New Year!	61 ms	7800 KB
<a href="#">102777044</a>	Dec/30/2020 22:40 UTC+8	<a href="#">DrinkMoreBoilingWater</a>	<a href="#">A - Bovine Dilemma</a>	GNU C++17	Happy New Year!	31 ms	4100 KB

点击my submissions 之后会看到你的提交记录。

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

点击standings之后会看到榜，如下：

PROBLEMS | COMMON STANDINGS | FRIENDS STANDINGS | RATING CHANGES | FRIENDS RATING CHANGES show unofficial

### Good Bye 2020

Final standings

C++ C Java Kotlin C# Python 2 Python 3 PyPy D Go Rust Pascal JS Perl PHP Ruby Haskell Ocaml Scala

You may double click into cells (or ctrl+click) to view the submissions history or hack the solution

#	Who	=	*	A 500	B 750	C 1000	D 1000	E 1500	F 1750	G 2500	H 3500	I 4000
1	tourist	10998		499 00:01 (0)	744 00:03 (0)	984 00:06 (0)	976 00:09 (0)	1444 00:14 (0)	1662 00:19 (0)	2187 00:47 (0)	2502 01:47 (0)	
2	maroonrk	10919		499 00:01 (0)	742 00:04 (0)	976 00:09 (0)	966 00:13 (0)	1428 00:18 (0)	1634 00:25 (0)	2120 00:57 (0)	2554 01:36 (1)	
3	Benq	10726		499 00:01 (0)	746 00:02 (0)	984 00:06 (0)	960 00:15 (0)	1428 00:18 (0)	1528 00:37 (1)	2154 00:52 (0)	2427 01:55 (0)	-3
4	scott_wu	10626		492 00:06 (0)	746 00:02 (0)	987 00:05 (0)	974 00:10 (0)	1436 00:16 (0)	1634 00:25 (0)	1967 01:05 (2)		2390 02:31 (0)
5	fivedemands	10617		499 00:01 (0)	686 00:07 (1)	966 00:13 (0)	952 00:18 (0)	1408 00:23 (0)	1615 00:29 (0)	1547 02:23 (0)		2944 01:39 (0)
6	Um_nik	10550		498 00:02 (0)	742 00:04 (0)	982 00:07 (0)	952 00:18 (0)	1412 00:22 (0)	1615 00:29 (0)	2174 00:49 (0)	2175 02:22 (0)	
				499	744	979	963	1420	1620	1857		2443

双击一下就能看别人代码。

点击friend standings 就能看好友的情况。

提交代码时候，你可以文件方式，也可以复制粘贴代码。

Submit solution

Good Bye 2020

Problem:  选择交哪个题

Language:  选择语言

Source code:

此块地方粘贴你的代码

用文件方式

☐ Switch off editor

Or choose file:

Tab size:

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except

选语言时候一般用GNU G++ 系列，一般选GNU G++ 11 5.1.0 就行。

如果你用了\_\_int128 选GNU G++ 17 9.2.0 (64bit ,msys 2)

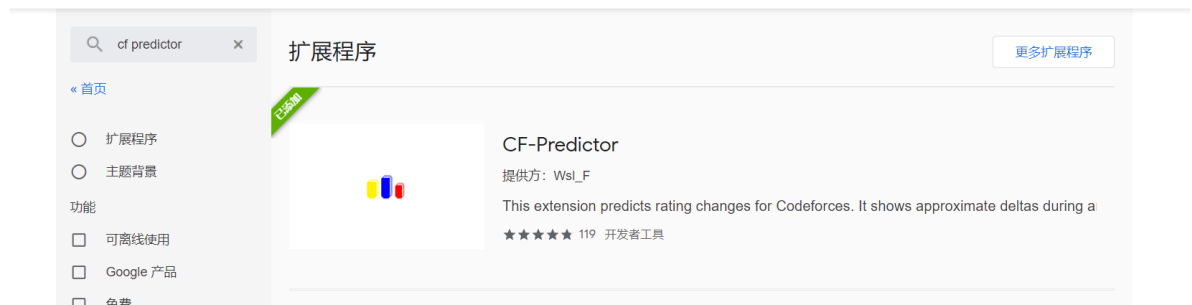
有时候存在选11能ac 选17 tle，这种情况是正常的。还有一些情况（用一种ac用另一种ce）可能你的代码写出了ub（undefined behavior）了，就是你认为这样写是这样的但是编译器没给定义，这种时候挺糟糕的。。

emmm，最快的话一般是14，但是14在某些情况下因为大力优化导致没有11表现好，如果没有用到17的特性的话一般用11交是比较好的。（当然如果你出现17ac 11tle的情况我也不敢保证，但我觉得不会出现这样的情况把qwq?）

## CF-Predictor 插件

预测自己升降多少分。

<https://chrome.google.com/webstore/search/cf%20predictor?hl=zh-CN>



他山之石

<https://www.luogu.com.cn/blog/ezoixx130/codeforces-tutorial>