

Best websites for Programming

Below is a list of some popular programming websites with a short description of what each one offers.

This websites contains the problem statements that you can solve using any programming language in which you are comfortable.

1. TopCoder



TopCoder is one of the original platforms for competitive programming online. It provides a list of algorithmic challenges from the past that you can complete on your own directly online using their code editor. Their popular Single Round Matches are offered a few times per month at a specific time where you compete against others to solve challenges the fastest with the best score.

The top ranked users on TopCoder are very good competitive programmers and regularly compete in programming competitions. The top ranked user maintains his own blog titled Algorithms weekly by Petr Mitrichev where he writes about coding competitions, algorithms, math, and more.

2. Coderbyte



Coderbyte provides 200+ coding challenges you can solve directly online in one of 10 programming languages (check out this [example](#)). The challenges range from easy (finding the largest word in a string) to hard (print the maximum cardinality matching of a graph).

They also provide a collection of [algorithm tutorials](#), introductory videos, and [interview preparation courses](#). Unlike HackerRank and other similar websites, you are able to view the solutions other users provide for any challenge aside from the official solutions posted by Coderbyte.

3. Project Euler

Problem 14

05 April 2002

The following iterative sequence is defined for the set of positive integers:

$$n \rightarrow n/2 \text{ (} n \text{ is even)}$$

$$n \rightarrow 3n + 1 \text{ (} n \text{ is odd)}$$

Using the rule above and starting with 13, we generate the following sequence:

$$13 \rightarrow 40 \rightarrow 20 \rightarrow 10 \rightarrow 5 \rightarrow 16 \rightarrow 8 \rightarrow 4 \rightarrow 2 \rightarrow 1$$

It can be seen that this sequence (starting at 13 and finishing at 1) contains 10 terms. Although it has not been proved yet (Collatz Problem), it is thought that all starting numbers finish at 1.

Which starting number, under one million, produces the longest chain?

NOTE: Once the chain starts the terms are allowed to go above one million.

Project Euler provides a large collection of challenges in the domain of computer science and mathematics. The challenges typically involve writing a small program to figure out the solution to a clever mathematical formula or equation, such as finding the sum of digits of all numbers preceding each number in a series.

You cannot directly code on the website in an editor, so you would need to write a solution on your own computer and then provide the solution on their website.

4. HackerRank

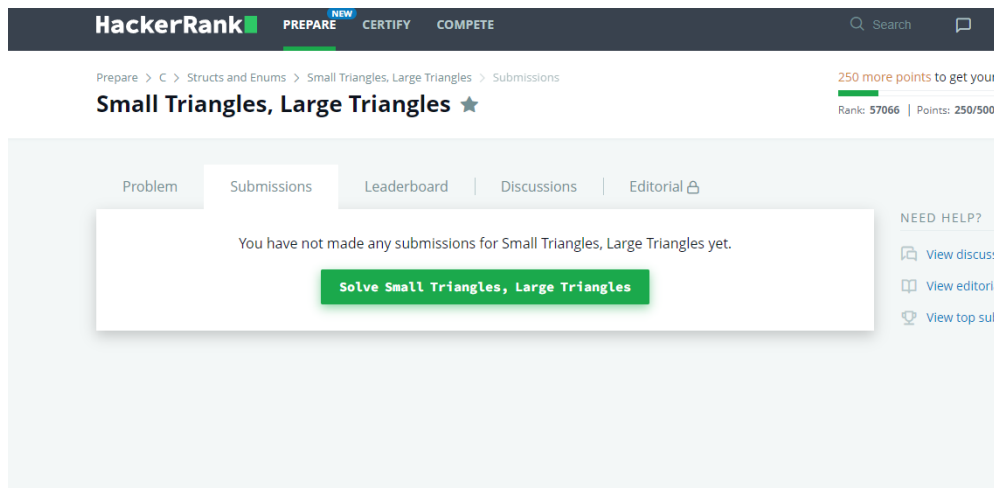


HackerRank provides challenges for several different domains such as Algorithms, Mathematics, SQL, Functional Programming, AI, and more. You can solve all the challenge directly online (check out this example).

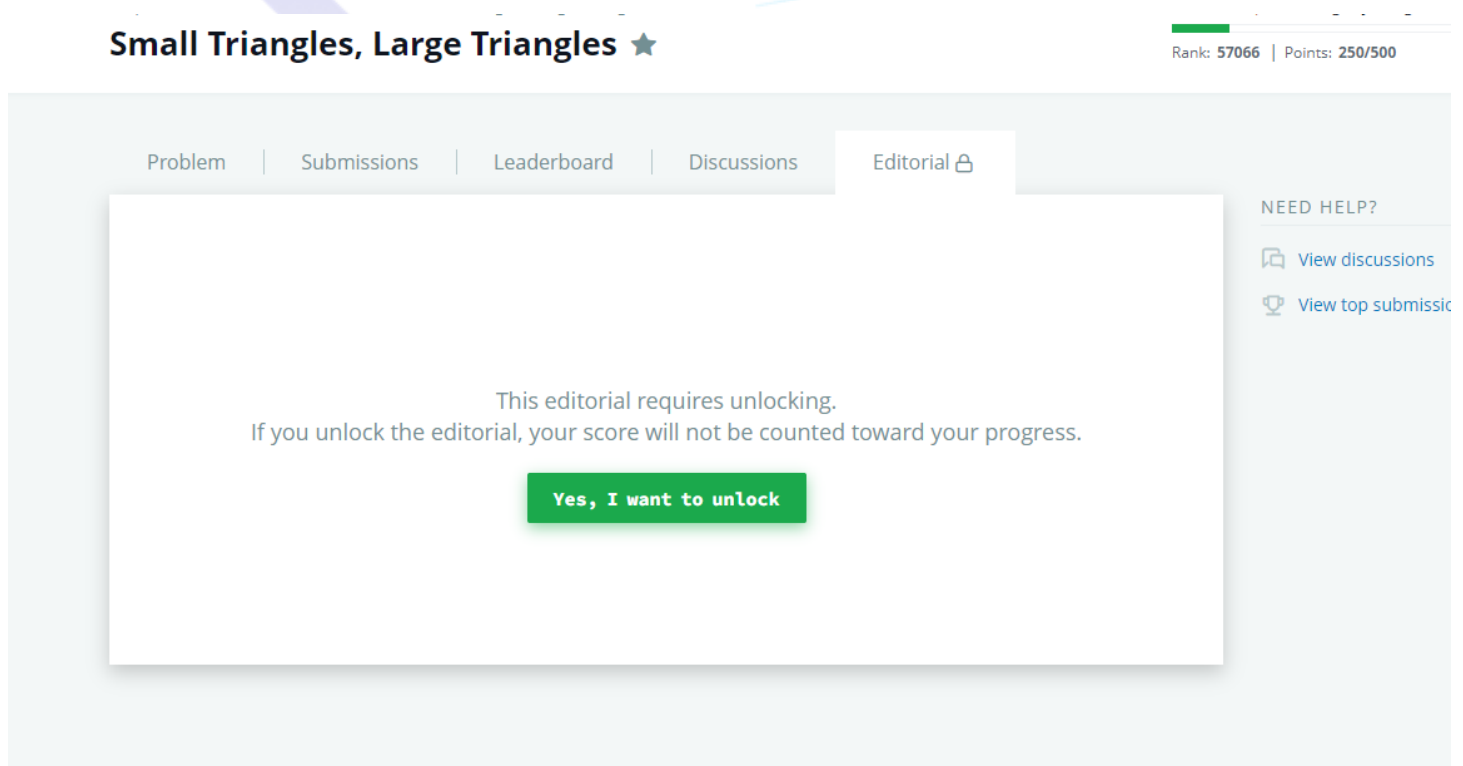
They provide a discussion and leaderboard for every challenge, and most challenges come with an editorial that explains more about the challenge and how to approach it to come up with a solution.

Currently, if you don't solve the problem, then you can't see the solution of others. If you also try to check the editorial before solving the problem, then you won't get the point for solving the problem at all.

As an example, here I haven't solved the problem, and I am trying to check others' submissions:

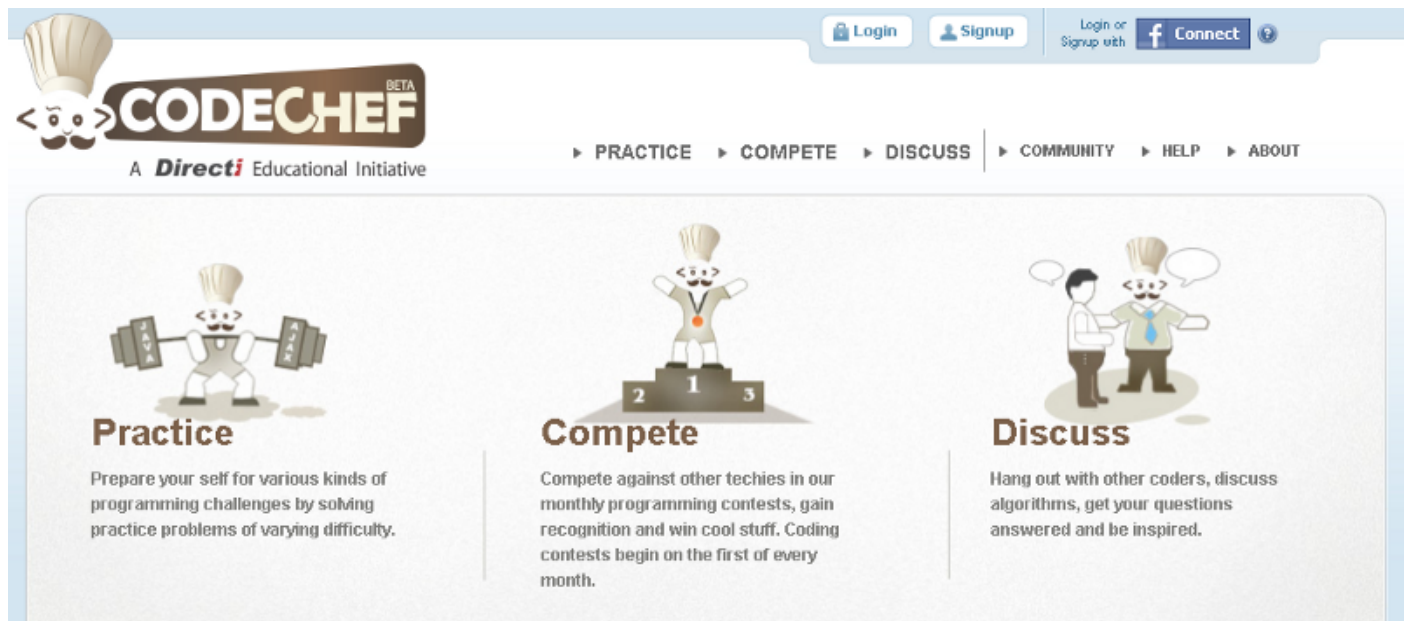


And here, I haven't solved the problem, and I am trying to check the editorial:


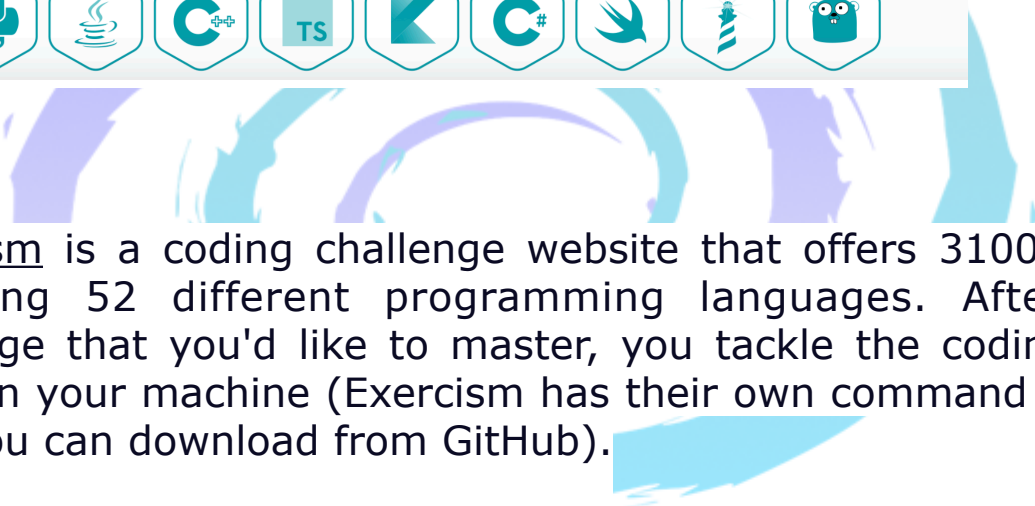


HackerRank also provides the ability for users to submit applications and apply to jobs by solving company-sponsored coding challenges.

5. CodeChef

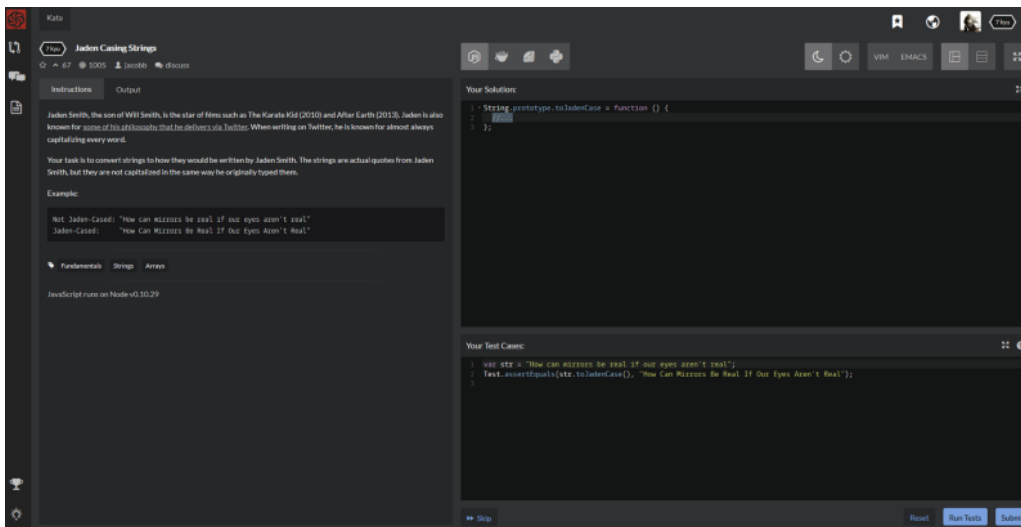


CodeChef is an Indian-based competitive programming website that provides hundreds of challenges. You are able to write code in their online editor and view a collections of challenges that are separated into different categories depending on your skill level (check out this example). They have a large community of coders that contribute to the forums, write tutorials, and take part in CodeChef's coding competitions.



It is a bit different from other challenge websites, however, because you work with a mentor after completing each challenge. The mentor reviews your answers online and helps you improve them if needed. Once your answers have been approved and submitted, you unlock more challenges.

7. Codewars



Codewars provides a large collection of coding challenges submitted and edited by their own community. You can solve the challenges directly online in their editor in one of several languages. You can view a discussion for each challenges as well as user solutions.

8. LeetCode

319. Bulb Switcher

Question

My Submissions

Total Accepted: 1612 Total Submissions: 4296 Difficulty: Medium

There are n bulbs that are initially off. You first turn on all the bulbs. Then, you turn off every second bulb. On the third round, you toggle every third bulb (turning on if it's off or turning off if it's on). For the n th round, you only toggle the last bulb. Find how many bulbs are on after n rounds.

Example:

Given $n = 3$.

At first, the three bulbs are [off, off, off].
 After first round, the three bulbs are [on, on, on].
 After second round, the three bulbs are [on, off, on].
 After third round, the three bulbs are [on, off, off].
 So you should return 1, because there is only one bulb is on.

[Subscribe](#) to see which companies asked this question

Show Tags

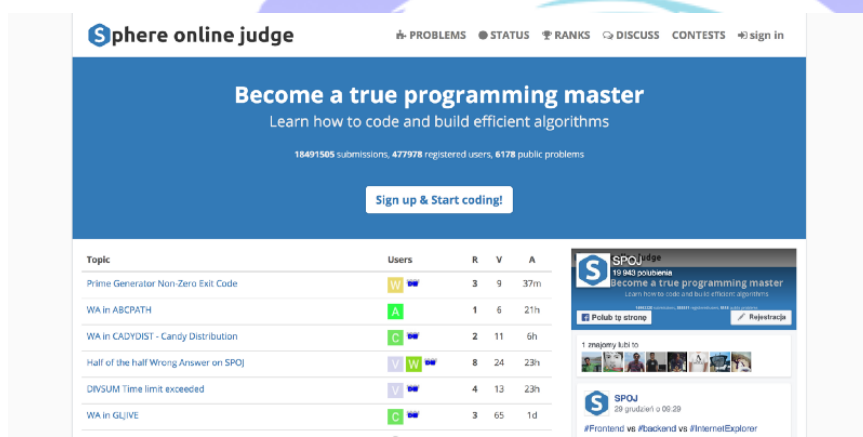
Have you met this question in a real interview? ☐ Yes ☐ No

Discuss

LeetCode is a popular Online Judge that provides a list of 190+ challenges that can help you prepare for technical job interviews. You can solve the challenges directly online in one of 9 programming languages. You are not able to view other users' solutions, but you are provided statistics for your own solutions such as how fast your code ran when compared to other users' code.

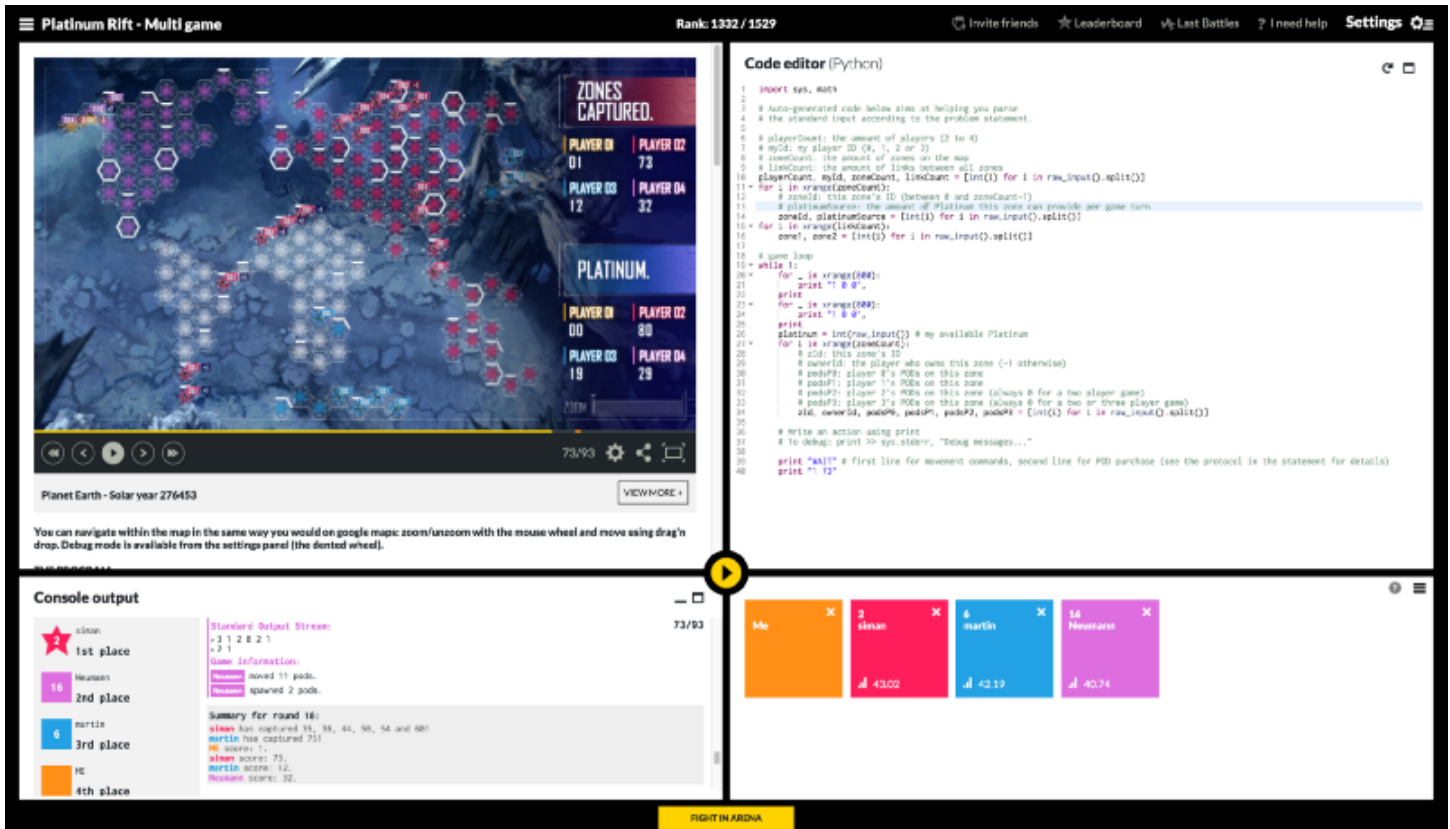
They also have a Mock Interview section that is specifically for job interview preparation, they host their own coding contests, and they have a section for articles to help you better understand certain problems.

9. SPOJ



Sphere Online Judge (SPOJ) is an online judge that provides over 20k coding challenges. You are able to submit your code in an online editor. SPOJ also hosts their own contests and has an area for users to discuss coding challenges. They do not currently provide any official solutions or editorials like some other websites do, though

10. CodinGame



The screenshot displays the CodinGame interface for a game titled "Platinum Rift - Multi game". The top bar shows a rank of 1332 / 1529 and navigation links for Invite friends, Leaderboard, Last Battles, I need help, and Settings.

The main game area shows a map of Planet Earth - Solar year 276453. On the right, a "ZONES CAPTURED" table lists player scores: Player 01 (73), Player 02 (73), Player 03 (12), and Player 04 (32). Below this, a "PLATINUM" table shows scores: Player 01 (80), Player 02 (80), Player 03 (19), and Player 04 (29).

The "Code editor (Python)" on the right contains a script for a game logic. The console output at the bottom left shows game information, including a summary for round 16: "slon has captured 39, 38, 44, 56, 54 and 60! martin has captured 75! slon score: 75, martin score: 12, slon score: 32."

At the bottom right, a "FIGHT IN ARDIA" button is visible, and a small table shows player scores: slon (43.02), martin (42.19), and Neuzen (40.74).

CodinGame is a bit different from the other websites, because instead of simply solving coding challenges in an editor, you actually take part in writing the code for games that you play directly online. You can see a list of games currently offered [here](#) and an example of one [here](#). The game comes with a problem description, test cases, and an editor where you can write your code in one of 20+ programming languages.

You can also solve the problem statements from our “**Logic Building**” batch with different programming languages.

Do the programming practice using above websites as its most important.

आयुष्य खूप सुंदर आहे फक्त programming जमलं पाहिजे ...