



# Competitive Programming

From Problem 2 Solution in  $O(1)$

## TopCoder (TC) Online Judge - 2

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# Solving in TopCoder

- TopCoder allows 2 interfaces to submit solutions: Arena and Web
- Arena: An applet, the original solution. Still the best way
- Web: This is new interface, but a bit slow way

PROBLEM ARCHIVE

PAST SRMS

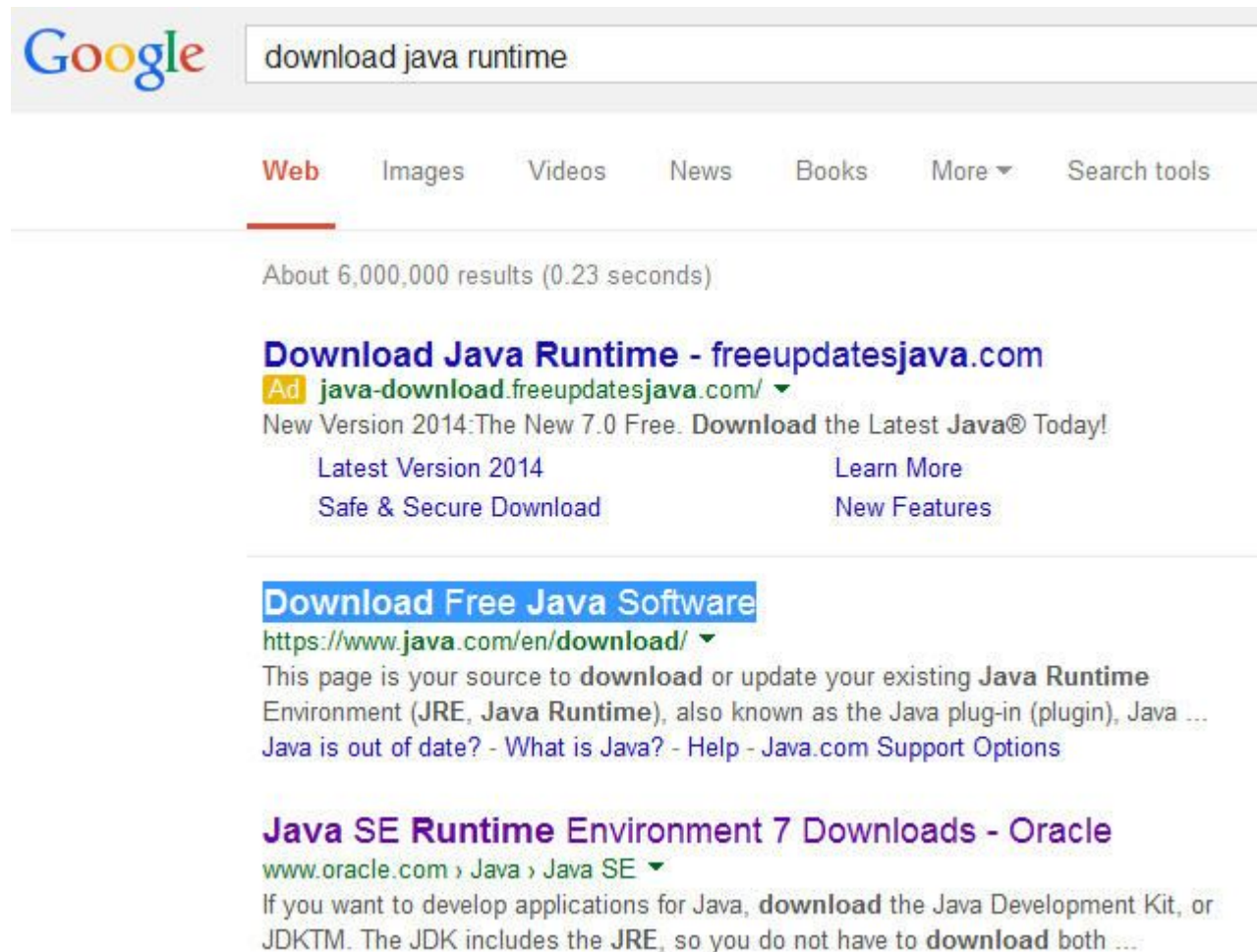
LAUNCH WEB ARENA (BETA)

LAUNCH APPLET ARENA

# TopCoder Arena

- Using the arena is a bit annoying in the begin
- Once you know how to use, no more problems
- There are even plugins to make testing better
- Your first step is getting latest Java on your Computer
- Then download the arena and launch it
  - If faced problems, just google it..many troubleshootings on web

# Java: Google it



A screenshot of a Google search interface. The search bar contains the text "download java runtime". Below the search bar, the "Web" tab is selected, and the search results are displayed. The first result is an advertisement for "freeupdatesjava.com" with a yellow "Ad" label. The second result is from "java.com" with a blue header "Download Free Java Software". The third result is from "oracle.com" with a purple header "Java SE Runtime Environment 7 Downloads - Oracle".

Google

download java runtime

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About 6,000,000 results (0.23 seconds)

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If you want to develop applications for Java, **download** the Java Development Kit, or JDK™. The JDK includes the **JRE**, so you do not have to **download** both ...

# Java: Download & Install



The screenshot shows a web browser window with the address bar displaying <https://www.java.com/en/download/>. The page features a prominent red header with the Java logo on the left and the words "Download" and "Help" on the right. Below the header, the page is divided into two main sections. On the left, a sidebar contains links for "All Java Downloads", "Report an issue", and a frequently asked question about redirection. The main content area on the right is titled "Free Java Download" in red, followed by the text "Download Java for your desktop computer now!" and "Version 7 Update 60". A large red button labeled "Free Java Download" is positioned below this text. At the bottom of the main content area, there are three links: "» [What is Java?](#)", "» [Do I have Java?](#)", and "» [Need Help?](#)".

<https://www.java.com/en/download/>

 Download Help

**All Java Downloads**

If you want to download Java for another computer or Operating System, click the link below.  
[All Java Downloads](#)

**Report an issue**

Why am I always redirected to this page when visiting a page with a .java app?

## Free Java Download

Download Java for your desktop computer now!

Version 7 Update 60

**Free Java Download**

» [What is Java?](#) » [Do I have Java?](#) » [Need Help?](#)

# Launching The Arena

- Downloaded file is ContestAppletProd.jnlp
- **Double click** the jnlp file or
- Or command line
  - **javaws** ContestAppletProd.jnlp (if downloaded)
  - **javaws** <http://www.topcoder.com/contest/arena/ContestAppletProd.jnlp>
- You may be asked to **allow** it, click ok
- If faced **problems** use command line. See the error message. Search web for it.

```
mostafa@mostafa:~/Downloads$ javaws ContestAppletProd.jnlp
Codebase matches codebase manifest attribute, and application is signed. Contin
/jweb/security/no_redeploy.html for details.
Application title was not found in manifest. Check with application vendor
```

# Arena

- After login, you see arena elements
- You **register** for SRMs from it
- For **practice**, the previous SRMs exist in list
  - But most are not available during actual contests
- You can open, read, submit, test your code
- You can view **practice** submitted **codes** in arena (which may be incorrect)
- You can change the default options
- Some **high school** contests too available

**Demo**



# Arena Plugins

- TopCoder view is very basic
  - E.g. You can't autocomplete!...Coloring..line numbering
- Different Plugins provide more powerful features
- There are many, we will use one of the simplest and powerful ones: KawigiEdit: [Read](#)
- [Download](#) from here
- You install it with a few easy steps through arena itself, see Installing KawigiEdit steps

# KawigiEdit Plugin

- This plugin has many features, among them
- You download **generated** code to disk
  - You can use the default template or update it
- The downloaded code has the problem test cases, so you can test all **once**
- Use any IDE, e.g. eclipse or visual studio
- After finish, back to arena to compile, final test, and then submit code
- Ahmed Aly has [version](#) that do code cleaning

# Web Arena

- A new arena, but a bit slow
- If interested try it
- Here is guiding [video](#)

# **Installation & Demo**

# تم بحمد الله

علمكم الله ما ينفعكم

ونفعكم بما تعلمتم

وزادكم علماً