

HackLondon Tech Olympics

Guidelines:

Below is a list of challenges your team has to complete. There are **no defined rules** to as to how you complete the challenges, but the decision of whether you've completed a challenge properly or not will be made at the discretion of the judges.

For each challenge, there is a number of points that are assigned to the challenge. Challenges have several points systems, including:

X Points for completing a challenge:	denoted as: X Points
Y Bonus points for completing subchallenges:	denoted as: X Points (+Y points)
X Points per request/entity:	denoted as: x Points per _____
A maximum number of X points:	denoted as: up to X points

If a challenge is written in **blue**, you have to ask one of the judges to monitor you while you do this challenge to prevent any cheating. If there are names in square brackets after the challenge's number of points, that means one of these have to monitor you for that challenge.

When you've completed a challenge, you have to wave your team's flag until a judge comes over and confirms you've completed the challenge.

If you have any questions, get on our [public Slack](#) and join the #olympics channel.

A Stack Overflow

Up to 200 Points

Stack plastic cups until they fall. For each layer of cups, you get 10 points.

B Flappy2048

100 Points

Get to 2048 on Flappy.

C 2048

50-200 Points

If you reach	512	you get	50 points
If you reach	1024	you get	100 points
If you reach	2048	you get	200 points

D Do You Even QWOP

0.5 Points per 1m, up to 500

That's 500 points if you get to 1000 meters. Have fun playing [QWOP](#)!

E Let Me DuckDuckGo That For You 150 Points (+50 Bonus)

Instead of [Let Me Google That For You](#), build a Let Me DuckDuckGo That For You. You don't need to do any animation or graphics whatsoever. If you make a microwave QUACK noise, you get an extra 50 points.

F Defuse the Bomb 150 Points

Build a program that runs as close to 42 seconds as possible without using any timer or pause methods. It has to be 5 seconds more or less than 42.

G I'm A Secret Agent Too 150 Points

Extract the backup password in the challenge at <https://www.mi5.gov.uk/careers/use-your-it-skills.aspx>.

H CaesarSalad 50 Points

Each team gets an encrypted caesar string. Decrypt it.

I TECHx Talk 100 Points

We'll give you a randomly chosen set of slides, and you'll have to present it on the spot.

J The Lion Sleeps Tonight 100 Points (+50 Bonus)

Take a selfie with Reggie the Lion and tweet it with hashtag #hacklondon and tag @hacklondonuk. Double points for recording a video of you singing this line: *"In the jungle, the mighty jungle, the lion sleeps tonight"*.

K What's a Git? 100 Points

Create a [Github](#) repository with only a README file. Make everyone on your team commit one line with their name followed by their favourite song.

L Bigger than Bigger. 250 Points

Make a 30-second Apple-product parody video about an object of your choice. Post on twitter with #hacklondon @hacklondonuk
some inspiration, check out our Hoodies page at kcltech.com/hoodies

M Hack on the Run 100 Points

Build a Rock, Paper, Scissors program without ever remaining stationary. You are also never allowed to put your laptop or phone down during the coding.

N Gotta Log Them All 1 Point per UA, up to 100 Points

Create a web app that logs all unique Browser User Agents (i.e. 'curl/7.30.0'). You can log this information in any way you please, and feel free to tweet with the #techolympics hashtag to get more visits to your page!

O Poetry Time**50 Points**

Create a sonnet about something tech related.

P I Trust You**100 Points** [\[Mustafa or Jessica\]](#)

Get someone to sign your public key. <http://xkcd.com/364/>

Q Stacked**200 points**

Do a single double clap push up. (You will have earned everybody's respect)

R Much Jackpot**500 points**

Can you get the string "hacklondon" into the Dogecoin blockchain?

S But First, Lemme Take A Selfie**10 points per member**

Take a selfie with everyone wearing a HackLondon shirt, post on twitter with the hashtag #hacklondon and tag @hacklondonuk.

T Breaking the Ice**10 Points per activity**

Search for a person who can:

1. Whistle (Prove it!)
2. Who knows 5 or more programming languages. (Will need proof too!)
3. Can code on iOS.
4. Can code on Android.

U Start-up**100 Points**

Create a program to generate random start-up names using words from urban dictionary.

V Pitch**50 Points**

Use the Start-up program to generate a random start-up name and perform a 30 second pitch to a HackLondon organiser convincing them to join your start-up.

W Quines**100 points per language**

Produce a Multiquine or an Ouroboros program

[http://en.wikipedia.org/wiki/Quine_\(computing\)](http://en.wikipedia.org/wiki/Quine_(computing))

X The Wiki Challenge**400 – 50 points per click**

Get from <http://en.wikipedia.org/wiki/Tech> to http://en.wikipedia.org/wiki/Adolf_Hitler in as few clicks as possible (Hani managed 4, Fares managed 6)

Y Programming is An Art**50 points**

Create the HackLondon logo in ASCII art.

Z Creepers **150 points**

Build the HackLondon logo in Minecraft.

AA BanditBash **10 points per level**

Using bash commands to progress through levels on

<http://overthewire.org/wargames/bandit/bandit0.html>

bb Obfuscation **100 (+50 points)**

Write a Hello World program in any programming language without using the characters h, l, w or o. Bonus points if you don't use any numbers either.

cc Game of Hacks **100 points**

Score 5/5 in the Intermediate mode of <http://www.gameofhacks.com/>.

dd Do you even logic? **50 points per 200 words**

Write an essay arguing that if $A \rightarrow B$ then $B \rightarrow A$

ee NullPointerException, Sometimes **150 points**

Write a program in less than 50 lines of code that generates a `NullPointerException` *sometimes* without using any of the random methods.

ff Shower-Waiting Algorithm

Is the algorithm on page 9 of HackLondon Welcome Pack thread-safe?

gg Rotten ROT-13 **50-200 points**

Write a very bad implementation of a ROT-13 cipher that is still fully functional.

CaesarSalad Strings

Team Alpha: Eua cuarj tuz hkrobbk euax keky

Team Beta: Ol zkt sorrout loxklroky

Team Gamma: Roz av znk cuxrj gy O lkrr gyrkkv

Team Delta: 'lgayk znke'j lorr znk uvkt gox

Team Epsilon: Gtj rkgbk zkgx jxuvy kbkxecnkxk

Team Eta: Eua'j znotq sk xajk

Team Zeta: Haz O cuarj payz yzgtj gtj yzgxk

Team Theta: O'j roqk zu sgqk seykrl hkrobbk

Team Iota: Zngz vrgtkz Kgxzn zaxty yrucre

Team Kappa: Oz'y ngxj zu yge zngz O'j xgznkx yzge gcgqk cnkt O's gyrkkv

Team Lambda: 'lgayk kbkxeznotm oy tkbkx gy oz ykksy

Team Mu: 'lgayk O'j mkz g znuaygtj namy

Team Xi: Lxus zkt znuaygtj romnztotm hamy

Team Omicron: Gy znke zxokj zu zkgin sk nuc zu jgtik

Team Pi: G ludzxuz ghubk se nkgj

Team Rho: G yuiq nuv hktkgzn se hkj

Team Tau: Znk joyiu hgrr oy payz ngtmotm he g znxkgj

Team Omega: O'j roqk zu sgqk seykrl hkrobbk

Team Chi: Zngz vrgtkz Kgxzn zaxty yrucre

Team Psi: Oz'y ngxj zu yge zngz O'j xgznkx yzge gcgqk cnkt O's gyrkkv