

IonQ & QCenter Quantum Challenge

September 24, 2021— October 26, 2021

Join a kick-off call on Zoom at 9:30AM KST
on 28 September:

<https://us02web.zoom.us/j/8602915958>

What is The Quantum Challenge?

- The quantum challenge is an at-your-own-pace hackathon, where teams of up to two people will compete to answer a series of pre-set challenge problems
- It will take place from 24 September 2021 until 26 October 2021
- There will be three separate challenge problems, each with three different levels.

To Participate:

- Join the kick-off call on 28 September 9:30AM KST on Zoom.
- Online registration through the challenge website (<http://qhackathon.kr/>) is mandatory.
- Submit answers to any problem at any level. Answers must be submitted to the Qcenter (q.edu@g.skku.edu) by 26 October 2021 at 2PM KST.
- Challenge answers may be submitted in English or Korean, and may be given to judges in written (paper, notebook) or recorded (via zoom or private youtube recording) format.
- Every Tuesday at 9:30AM, office hours is held on Zoom.



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Team Prizes:

- Submit one answer at Challenge Level 1: 10,000 won gift card from Ediya Coffee
- Submit one answer at Challenge Level 2: 50,000 won gift card from Shinsegae
- Submit one answer at Challenge Level 3: 100,000 won gift card from Shinsegae

Maximum three prizes per team

Top Prize:

Top Three Selected Submissions will win a trip to visit IonQ in Maryland in the US! We expect that trip winners will submit solutions to multiple challenges at the higher levels.

Trip includes airfare, 5 nights in a hotel and food allowance—during the trip, you will spend a day with the IonQ team and get a tour of IonQ, and meet with Professor Christopher Monroe.

You will also visit the University of Maryland. IonQ is near the Washington DC area of the US and there are lots of museums, restaurants and activities to enjoy.

Maximum of six winners(three teams) total. Prize is subject to change as a result to the ongoing COVID-19 pandemic or other extenuating circumstances as required by regulations in the US and Korea. Trip dates and details will be decided by the organizers.

Judges:

Professor Junki Kim, SKKU

Professor Yonuk Chong, SKKU

Dr. Yunseong Nam, IonQ

Sang Hyub Kim, IonQ

Walker Steere, IonQ

Please see the contest rules on the following page for official details, regulations, and other considerations.



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Competition Rules

1. You must treat all team members, competitors, judges, coaches, volunteers, etc, with respect and courtesy.
2. Hackathon teams will be a maximum of 2 people. Teams must be registered with Professor Junki Kim and should have a team name.
3. All projects should be submitted to the Qcenter at the close of the hackathon, Oct 26, 2021, at 2 pm KST.
4. Maximum of two prizes per person will be awarded.
5. Teams should be made up exclusively of students who are not organizers, volunteers, judges, sponsors, or in any other privileged position at the event.
6. Teams can of course gain advice and support from organizers, volunteers, sponsors, and others.
7. Teams can use an idea they had before the event.
8. Teams can work on ideas that have already been done, preferably already published, either by them or others. Hacks do not have to be "innovative". If somebody wants to work on a common idea, they should be allowed to do so and should be judged on the quality of their solution.
9. Teams can use libraries, frameworks, or open-source code in their projects. Working on a project before the event and open-sourcing it for the sole purpose of using the code during the event is against the spirit of the rules and is not allowed.
10. Assets, SDKs and APIs or other tools or components available under a trial license may be used.
11. Teams must stop hacking once the time is up and their work has been submitted. Teams can be disqualified from the competition at the organizers' discretion. Reasons might include but are not limited to breaking the Competition Rules, behaving in a way that is unsporting behaviour.
12. The decision of the judges is final. We are looking for unique solutions and work across the entire question sets.

