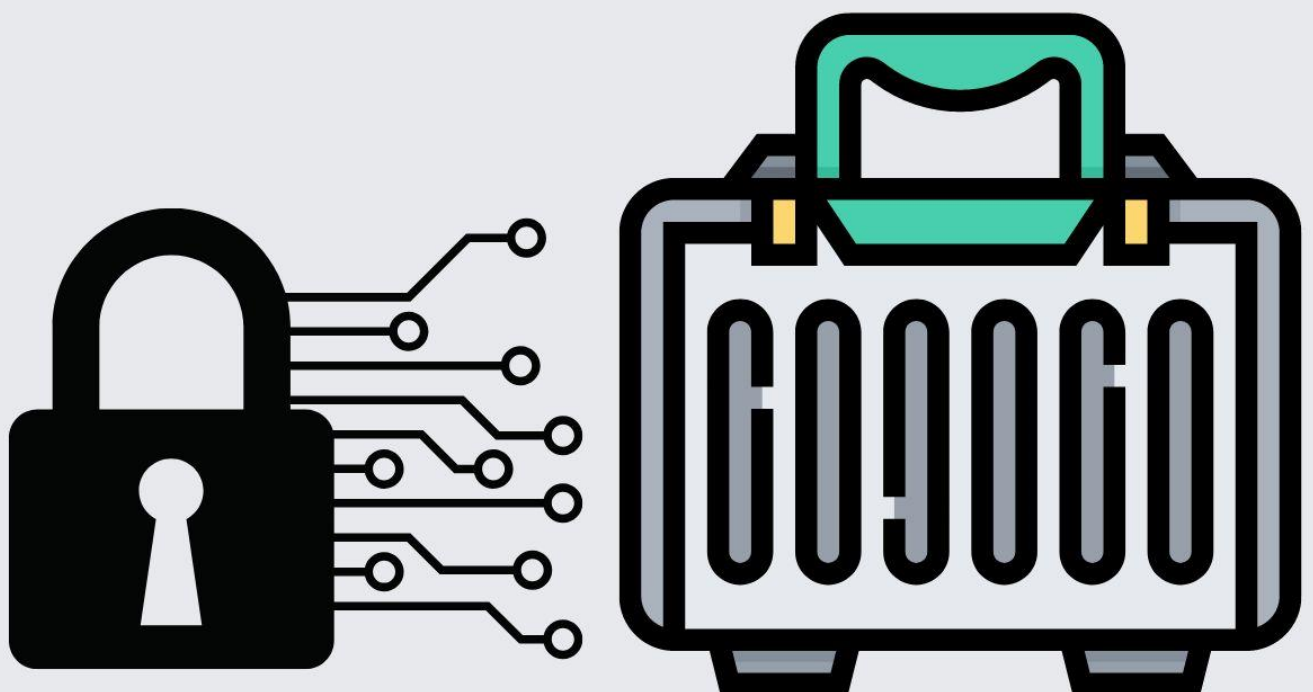# The CodER Virtual Scenarios Handbook

Instruction for participants

Title: Can you open a suitcase with a microcontroller?

Can you open a suitcase with a microcontroller?
Instruction guide for adventurers

1. **Game description**

    Christos Papadimitriou is a professor in the Electrical Engineering and Computer Sciences Department at University of California, Berkeley. Before joining UC Berkeley in 1996, he taught at Harvard, MIT, Athens Polytechnic, Stanford, and University of California, San Diego. Papadimitriou received the 2002 Knuth Prize from ACM SIGACT and the IEEE Technical Committee on the Mathematical Foundations of Computing for longstanding and seminal contributions to the foundations of computer science.

    This year's Human Brain Project Open Day, coordinated by the "Athena RC" welcomes the Greek distinguished professor Christos Papadimitriou of Columbia University, for a keynote speech on the contribution of computational science to the study of the brain and intelligence. You and your team are there to attend the conference as you admire Mr Papadrimitriou's work. Soon you realise something is not going well as loud voices are heard from the conference lobby, and when you go there you see Christos Papadimitriou having lost the access to his usb stick and all notes from his speech that are inside to his luggage. Only 60' minutes are left before the time of his speech, so you decide to help him. The thing is that you are not looking for just a key to open the luggage, you have to do with a system of microcontrollers that opens a small box inside the suitcase.

2. **How to win/escape?**

    You and your team have decided to help Christos Papadimitriou regain access to his presentation. So you have to solve all the riddles and open the file that contains the presentation. But you only have one hour before the conference starts. To solve the riddles you will use simple coding, the program scratch, qr codes and an online program with microcontrollers. If you succeed in solving all the riddles you will find Dr. Papadimitriou's presentation.
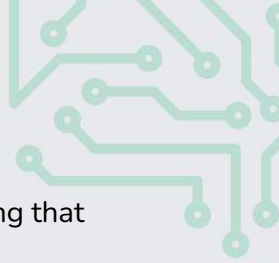
3. **How to find hints?**

    There are 4 challenges. Each one will guide you through the next one. You will need to use all the elements (computer, USB stick, suitcase, padlocks, mobile phone and more that you will discover later). Also you will need some programs that are downloaded and already opened on the computer.

4. **Tips and tricks**

Co-funded by
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Try to follow the storyline, do not rush through the riddles, and keep everything that you will find, since you may need it in the future. If you get stuck, ask the gamemaster to help you.

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