

# Malaysian Computing Challenge 2020

## Key dates (tentative)

19 Oct 2020: Registration opens.

14 Nov 2020: Registration closes.

5 & 6 Dec 2020 (Sat & Sun): MCC 2020.

## What is MCC?

The MCC (Malaysian Computing Challenge) is an annual online competition designed to evaluate participants' computational thinking abilities. **Knowledge of programming is recommended but not required.**

## Format

Participants will be required to solve between 4 to 6 challenging problems within a two-day window.

Participants may work on the contest anywhere, including at home. MCC participants abide by an honor code that prohibits them from discussing the problems and/or solutions with anyone else during the contest time.

The problem statements will be available in both English and Bahasa Malaysia.

## Categories and Awards

The three categories are:

- Junior – Form 1, 2, 3, or Primary school;
- Intermediate – Form 4 & 5;
- Senior – Form 6 (lower & upper), Pre-U (Matriculation, Foundation Studies, IB, A-Levels, etc.).

All students will take part in the same competition, but prizes will be awarded by category. There will be **Gold, Silver, Bronze** and **Honorable Mention** awards.

## Eligibility

MCC is open to primary, secondary and pre-university students who are:

- either studying in Malaysia or Malaysian citizens studying abroad  
AND
- born after 1 July 2001.

## Fee

The fee is RM10 per participant.

## Sample Problem (MCC 2017)

N balls are arranged in a row. Each ball is moving either left (L) or right (R), with the same speed. When two balls collide, they each move to the opposite direction, with the same speed as before. How many collisions will happen?

E.g. if  $N = 5$  and `balls_direction = ['L', 'R', 'R', 'L', 'R']` then the answer is **2**. The actual tasks to solve will have N ranging up to 100,000. Sample code solution available at <https://repl.it/@zhiwei/collisions>

Visit <https://ioimalaysia.org/competition/mcc/> for more info or contact us via e-mail at [mcc@ioimalaysia.org](mailto:mcc@ioimalaysia.org).

MCC is brought to you by the Malaysian Informatics and Programming Society (MIPS), supported by MDEC #mydigitalmaker and endorsed by the Ministry of Education (MOE).