

NATIONAL UNIVERSITY OF SINGAPORE

SCHOOL OF COMPUTING

CS2030 — PROGRAMMING METHODOLOGY II

(Semester 2: AY2022/2023)

Apr / May 2023

Time Allowed: 2 Hours

INSTRUCTIONS TO CANDIDATES

1. This assessment paper consists of **FIVE(5)** questions and comprises **NINE(9)** printed pages, including this page.
2. Answer **ALL** questions. The maximum mark is **40**.
3. This is an **OPEN BOOK** assessment. You may refer to your lecture notes, recitation guides, lab codes, and the Java API.
4. By taking this assessment, you are agreeing to abide by the following Honor Code:
 - i. You will not discuss with, or receive help from, anyone.
 - ii. You will not search for solutions or help, whether online or offline.
 - iii. You will not share your answers with, or give help to, anyone.
 - iv. You will act with integrity at all times.

Breaching the Honor Code will result in severe penalties!

5. Write your answers within the individual program files and submit to the CodeCrunch course **CS2030_EX** with the task titled **CS2030 Final Assessment Submission**.
<https://codecrunch.comp.nus.edu.sg/>
6. You are advised to submit all your files after attempting every question. No extra time will be given to submit your work at the end of the assessment. You may upload as many times as you wish, but only the latest submission will be graded.

| Question | Q1 | Q2 | Q3 | Q4 | Q5 | Total |
|----------|----|----|----|----|----|-------|
| Marks | 4 | 10 | 12 | 10 | 4 | 40 |