

# CMPE 101: Object Oriented Programming

## Worksheet 5C

Istanbul Bilgi University

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### Part I

Write a method that takes two parameters: integer  $n$ , integer  $m$ . If  $n > m$ , then calculate the binomial expression  $\binom{n}{m}$ . Otherwise, it calculates  $\binom{m}{n}$ .

### Part II

Write a method that takes two parameters: integer  $x$  and  $y$ . The method asks the user to input a character. The given character defines the operation. For example, if the given character by user is '+', then calculate  $x + y$ ; if the given character by user is '\*', then calculate  $x * y$ .

### Part III

Write a method that takes three integer parameters:  $x, y$ , and  $r$ . The method checks whether the point which coordinates are  $(x, y)$  is inside the circle which is centered at the origin  $(0, 0)$  and radius is  $r$ .

**Note: Do not compress your files, submit only java files.**

**Note: Do not forget to justify your answers with comments.**