uter Programming Language Exam Mode: Close-book Paper Type: A

20 points) Write a method to check whether a given number is prime.

Anhui University of Science and Technology 2021~2022 Academic Year: First Ter

	IX X Total
Score 10 15 20 25 30	

1. (10 Points) Write a program to print out all even numbers in [0, 100].

Public class Even Numbers

Wanne: Mahadi Sajjad Naloy

& Public static void main (string args[]) 2: nt number = 100; System out printh("Number" + number + ":"); for (int i=1; < = number; ++)

1; (: %,2 == 0)

2 System, out printh(c+");

II. (15 points) Write a method to calculate n!

Method signature: double factorial (double n)

class Faubrid &

Start double jaubrid (double n)

if (n==0)

return 1;

yesten. out. println ("Factoried of" + number + "is: " + fact) Sublice static void main (string args[7]) {
double is just = 1 number = n;
justorial = justorial (number); return (nt suctorial (n-1));

| if (58 fr.me) { 5 ystem.out.pr.nt (number + ""); count + +; if (count 9, NOP == 0) { input. dose (); munder ++; signature: boolean isPrime(int n)

mud = 0, runnber = 2, 1, + 100);

ud. part h ("frine runnber + 100); toolean spine (int n);
torkint d = 2; d <= 1/2, d+t) & if (number % d == 0) & isteine = julse, break;

unique numbers. For example, given (2, 1, 6, 3) and (3, 6, 5, 2), the output should IV. (25 points) Given two unsorted arrays of integer, write a method to collect all be (1, 2, 3, 5, 6).

[ethod signature: int[] getUniqueElements(int[] arr1, int[] arr2)

Ublic class Unique &
Public static int[] get Unique Elements (int[] arrl, int[] arrl,
int[] combine = stream.concat (Arrays: stream (arr), Arays steam(arr),
to Array (String[]: new);
List Lint7 distinct Elements = Array stream (combine)
clistict()

return district Elements. to Army (new Int Edistint Floreds size (37))

Sydem. and print ho (met Ind .; on (" ", Merge unquelus 1, an 211) 10+[1] are 1 - new 10+[7] \$2,1,6,53 Public state void noin Unt[] ungs) &

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2021 International Posteraduates Student ID: 2021290010

Line

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