

| o | 4: Write one or more Java statements: [5 pts.] (1+2+2) |
|---|--|
| | a- Write one statement that will multiply the value of double variable dnum by 6 then assign it to |
| | a- Write one statement that will multiply the value of double variable |
| | variable inum. |
| | Note: Assume that all variables are already declared. |
| | 1~+invm=(Ont)(down) * 6.) 5 |
| | b- Write a switch to test the value of integer variable day, if it is 1, 2, 3, 4, or 5 print "Weekday" if it 7 print "Weekend", otherwise print "Invalid". |
| | |
| | Smitch (day) (|
| | |
| | .Cose.12 |
| | Case 2.1 |
| | Case 2: |
| | Case 5.2 Systemautapoila (Neckday); |
| | Break. |
| | Case 5: System. Out. Protty ("Meekend"); |
| | |
| | Braks |
| | System Outsprinte (Invalid); |
| | |
| | J |
| | |
| | |
| | c- Write an iffelse statement that adds 1 to the variable minors if the variable age is less than 18, adds 1 to |
| | c- Write an iffelse statement that adds 1 to the variable minors in the variable seniors and prints the char 'S' the variable adults if age is between 18 and 64, and adds 1 to the variable seniors and prints the char 'S' |
| | ic in 65 or older |
| | Note: All variables are of type int, declared and initialized. |
| | System. Outstrint In ("Enter. aga"); |
| | age =vanclanentLate(); |
| | |
| | if (83e < 18) (|
| | Minar S = ++h) ast S. J. Q. C. |
| | else if (18 < age < 64) |
| | ad the thadults in |
| | Seniers z. tt Seniors ; |
| | 7 9 |

else {
System.out.printl. ("151");

| re | and three temperatures, if their sum is greater than 60 degrees, print the message: "FIRE!! Temperature defended 60 degrees". If one of the entered temperature value is negative, print the message: "Negative as entered". |
|----|--|
| | import java. util. +; |
| | public class temperatores & |
| | Public Static void main (String args []) { Scanner Read = new Scanner (System in); System out - println ("Enten 3 temperatures"); |
| | int tem = Read-nextInt(); int tem = Read nextInt(); int tem = Read nextInt(); |
| | int Sum = tem + tem 1 + tem 2; |
| | JF (Sum 760) { "FIRE!! Temperature teached to down a |
| | (ebolif. (tem/a). II (tem/2) II (tem2/a)). |
| | Systemopate Printly (" Negative Value was entered "); |
| | 33 // End main and Class |
| | |
| | |
| | |
| | |
| | |
| | *************************************** |

| of Paise: [3 pts. =0.75 each] | |
|--|------------|
| Statement | |
| Logical operators take numeric and boolean values as operands. | True/False |
| The JVM translate the code into bytecode. | TX-0. |
| s.substring(3) will return a string from index g up till s.length() -1 | F/ |
| rogram terminat | T |
| rogram terminates with a run-time error message, if the user enters the input flue 5.8 for the variable num in this statement num = console.nextInt(); | - |
| int num = | |

al



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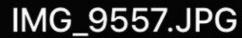
Q2: Find and correct errors in the following code (there are 4 errors): |4 pts.| (0.5 find error, 0.5

```
Q2: Find and correct the error)
Note: Do not remove any statement.
```

```
1. import static java, lang. Math. *;
2. import java.util.*;
4. static Scanner input = new Scanner (System.in);
5. public static void main(String[] args) {
    String[] array = {"Abmad", "451", "Ali", "T34"};
    int array2[] = new int[5];
    boolean flag= false
7.
9. int index =0, num, sum =0;
   int j = input.nextInt();
all. int minimum = min(j, array[1]);
    System.out.println("Enter:");
13. String search = input.next(); line?
                                                T 8 0 L=
      while (Iflag, && index<=array.length)()
14.
        if (search.equals(array[index]))
15.
            flag=true;
16.
        index++;
17.
     (1)
18.
      while (num<5) {
19.
        array2[num]=input.nextInt();
20.
      _find_negative(array2[num]);
21.
       num++;
22.
23.
24.
   public static boolean find negative (int x) {
25.
      if (x<0)
26.
          System.out.println("Error!, Negative Numbers");
27.
28.
          System.out.println("Positive Numbers");
29.
30.
       1
31.
```

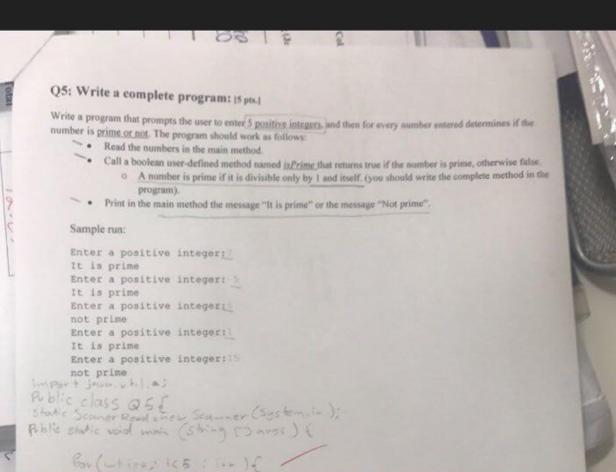
| 31. |) | Correction |
|------------|-------------------------------|--|
| Line No | Error | |
| | | min cannot take string |
| 17 | int minimum min (j , array 0) | min (j, Rose Integer "451" = 451 |
| 19 | (numcs) num (mind) | 1 num = 0 (num < 5) |
| 21 | wrong culling (arrays [mm] |) intx=arrayz [arm] / And mogative (x); d= |
| 25 | boolean - | void / there is no return |













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Q3: What is the output for the following code segments: |4 pts.| (2+2) Please use ~ to represent space. Any extra output is -0.25 Output import static java.lang.Math. *; public class Program11 public static void main (String args[]) double x = -3.5; int [] a = new int[10]; int [] b = new int[10]; b = a; b[5]= 6; a[5] = 10; System.out.println(b[5] + "" + a[5]); System.out.println(round(x)); $\rightarrow -3$. gSystem.out.println(ceil(3.5)); 2. No Pormeres Output public class Program2 (Dpublic static void dis() (System.out.println(" in method dis"); Expublic static int encrypt (int w, char q) (wint m; - if (q == 'r') m= w/7; m= 7/7=[] else (m= 1899; 7929 - 127 [dis();) Callie return m; (a)public static int m(int i) (return i+1; upublic static void main(String[] args) { int y =0; \(\)
int j =7; \(\) | 2
char []list = {'t','t'}; \(\)
for (int i=0; i<list.length; i++) { y mencrypt(j, list[i]); Calling System.out.println(y); System.out.println(m(j));



: What is the output for the following code segments: [4 pts.] (1+1.5+1.5)

```
tes:
```

- Please use ~ to represent space.
- · Any extra output is -0.25

```
Output
                                                     1-True True 0.25
boolean x=false;
int t=0, j=1, k=2;
f_{x=} ++t==j \mid \mid k 2>0;
 System.out.print(t+" "+x+" "+k);
b-
                                                     Output
/Unicode 'A'=65, 'B'=66, 'C'=67
 char inputChar = ['A';
 switch (inputChar) { case 'A':
  case 'a'
  System.out.println(inputChar);
  inputChar=(inputChar=='A')?++inputChar:'Z';
  case 'Z':
  case 'z':
  System.out.println(inputChar);
      break;
   default:
   System.out.println(inputChar + " is not
found");
       break;
                                                    Output
else if ((x == 0) && (y == 3)){ // F
System.out.println("better" + --z);
}
   System.out.println("excellent" +-z++);
 else {
}
```

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Q1: State if the following statements are True or False: [3 pts. =0.75 each]

| Statement | True/False |
|--|------------|
| We can specify array size by either declaring it as a constant or reading it from the user during program execution. | - |
| The continue statement skips the remaining statements inside the loop; and proceeds with the next iteration, if any. | - |
| In void method, we can use break statement to exit early. | FI |
| If the number of required iterations is not known, and the loop should execute at least once, then we must use a while loop. | TL |
| | 0-75 |

A B B

Q2: Find and correct errors in the following code segments (1 error each): [4 pts.] (0.5 find e

Line

b)

Line

a)

| 1 | final int DAYS_OF_MONTH= 31; | 1 | String str="CSC111"; |
|-------------------------|---|-------------------------|----------------------------------|
| 2 | Scanner input = new Scanner(System.in); | 2 | char c=\S';~ |
| 3 | String nameOfMonth; | 3 | System.out.print(str.indexOf(c) |
| 4 | nameOfMonth=input.next(); | 4 | System.out.print(str.charAt(2.5) |
| 5 | if(nameOfMonth.equals("February")) | 5 | 5,500 |
| 6 | DAYS_OF_MONTH= 28; | | |
| Error | line 5 | Error | line 4 |
| Correction or Reason | if (namofmonth=="February") (==) -Right one of pure | Correction or Reason | charAt(int) |
| Line | c) | Line | d) |
| 1 | int num=520; | 1 | int x=5; |
| 2 | double x=92.67; | 2 | if(1x<2) |
| 3 | String str= "Computer Science"; | 3 | System.out.println(x); |
| 4 | | 4 | else x++; |
| | | Error | |
| Error | (line 4) .28% not for string for Jable | | line 2 |
| Correction or | | Correction or Reason | if(! (x < 2))_ |

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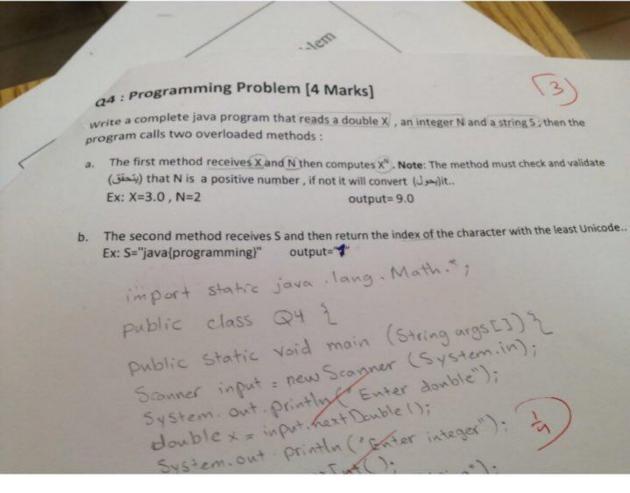
Q2: Find and correct errors in the following code segments (1 error each): [4 pts.] (0.5 find of 0.5 correct the error)

| Line | a) | Line | b) |
|------------------------|---|-------------------------|----------------------------------|
| 1 | final int DAYS_OF_MONTH= 31; | 1 | String str="CSC111"; |
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| 3 | String nameOfMonth; | 3 | System.out.print(str.indexOf(c) |
| 4 | nameOfMonth=input.next(); | 4 | System.out.print(str.charAt(2.5) |
| 5 | if(nameOfMonth.equals("February")) | 5 | |
| 6 | DAYS_OF_MONTH= 28; | | |
| Error | line 5 | Error | line 4 |
| Correction or Reaso | if (namofmonth=="February") | Correction or Reason | charAt (int) |
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| 2 | double x=92.67; | 2 | if(1x<2) |
| 3 | String str= "Computer Science"; | 3 | System.out.println(x); |
| 4 | System.out.printf("%d%,2f%s%n",num,str, | 4 | else x++; |
| | x); | Error | |
| Error | (line 4) .2 F% not for string for string for string | | line 2 |
| orrec on or | System. out. Print F ("1.d.0/05 -0/02 Roy in, | Correction or Reason | if(! (x < 2))_ |
| - | num, 5tr, +); | 1000 | |



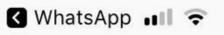








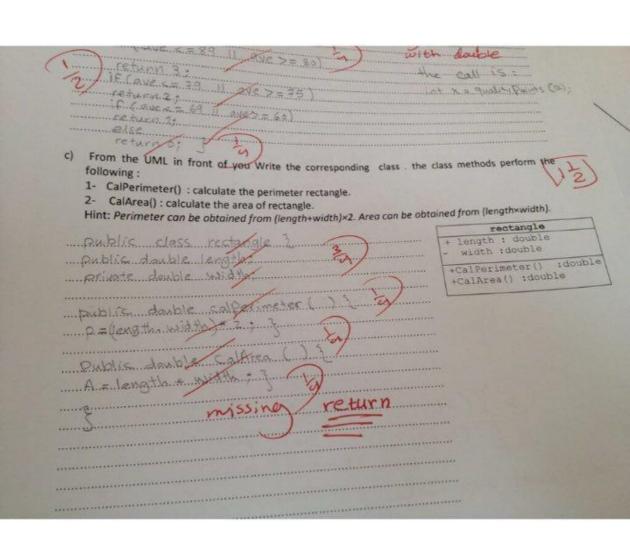












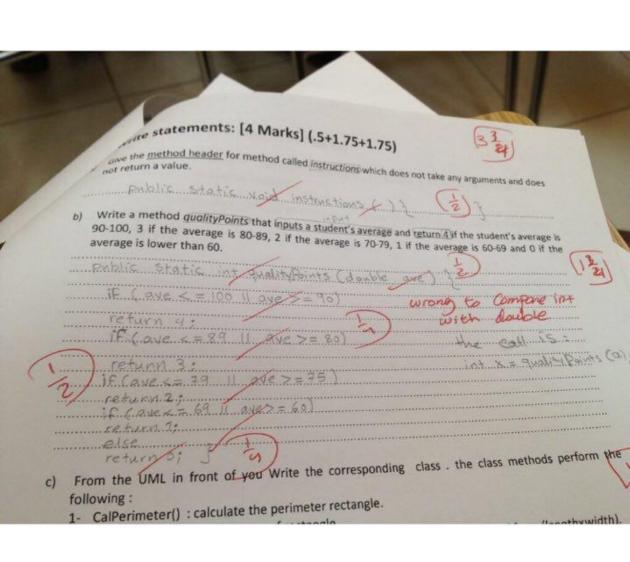






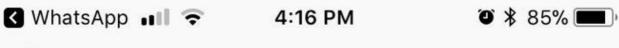






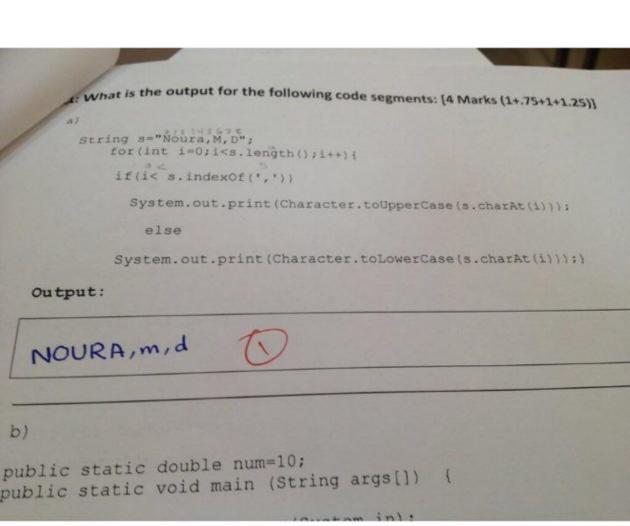
















| : Find and correct errors in the follow | line | b) |
|--|-------------------------|--|
| ublic class MyProgramm() | 1 | final int DAYS OF YEAR=365; |
| sublic static void main(String args[])() | 2 | String typeOfYear; |
| int count=0; | 3 | typeOfYear=input.next(); |
| String str="Welcome to Java"; | 4 | if (typeOfYear.equals("leap")) |
| f(str.substring(0,str.indexOf("Java"))>5) | 5 | have of YEAR=3665 |
| count++(1) | 6 | Lata Days OF YEAR! |
| | error | Line 5 DAYS_OF_YEAR= 366; |
| line 6 count ++;} | and. | line 5. Union |
| | | because final int DAYS-YEAR-365 |
| count ++ > } because we must | Correction or reason | is constant value not be change |
| the class close | | 15 Constain |
| c) | line | d) String patient="Mohammed"; |
| int count=0; | 1 | |
| while(count <5) (| 2 | - PAMAGETY |
| num=input.nextInt(); | 3 | narsus- |
| if (count==4) | 4 | parseInt(age); |
| continue; | 5 | retiredAge=Integer.parseInt(age); |
| count++;) | error | Cine 4 id = Integer - parse Int (IDI) |
| Cinc 6 count++; | | |
| | Correctio | ID = Integer . parteInt(ID); because id .desut nead parsing be Alinteger value but ID strueg val |
| because the update after continue | or reason | because id idoes to the ID stong val |
| we must but country; Kefore Continue |) | n |
| e) count ++ | IIIIC | int counter=0, sum=0; |
| String student="Johan Michael"; | 1 | |
| double GPA=0.0; |) 2 | while(counter<20); |
| GPA=input.nextDouble(); | 3 | counter++; |
| system.out.println((GPA=4.5)? "Student | | sum+=counter;} |
| is eligible for upgrade\n"Ostudent | 5 | Sum -courses, |
| isn't eligible for upgrade\n"));) | | |
| Line 11 "student is eligible for upor | de error | Rine 3 While (counter 20 |
| in " O "student isn't eligible for upgrad | CIM. | |
| " System out printly ((GPA=4.5)? Student | Correction | do S a coa : |
| Is digible for apgrode In" : "shedout isis | or reason | do 1 counter++; |
| aligned for upgradge(n "); | 1 | Sum = country; } |

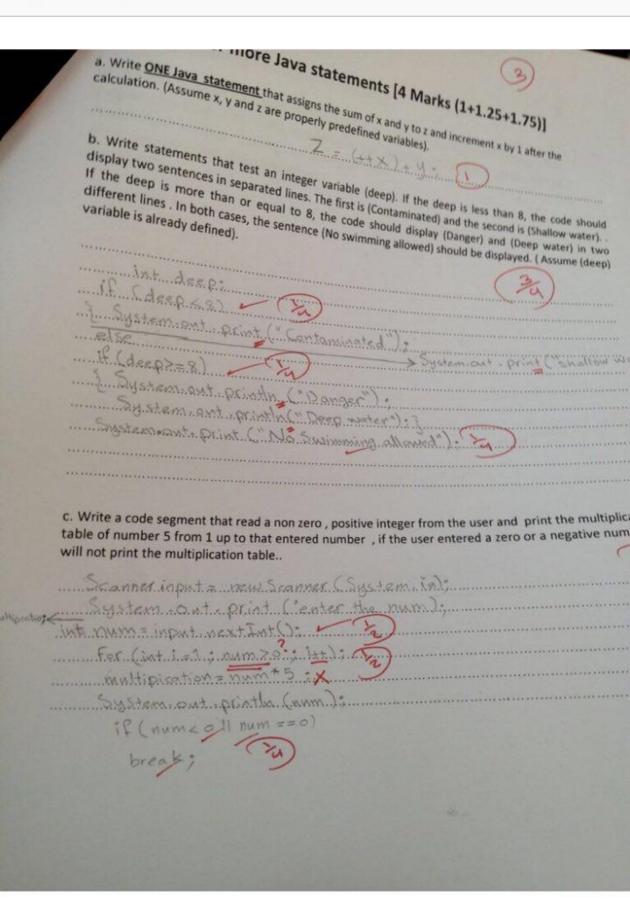








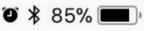




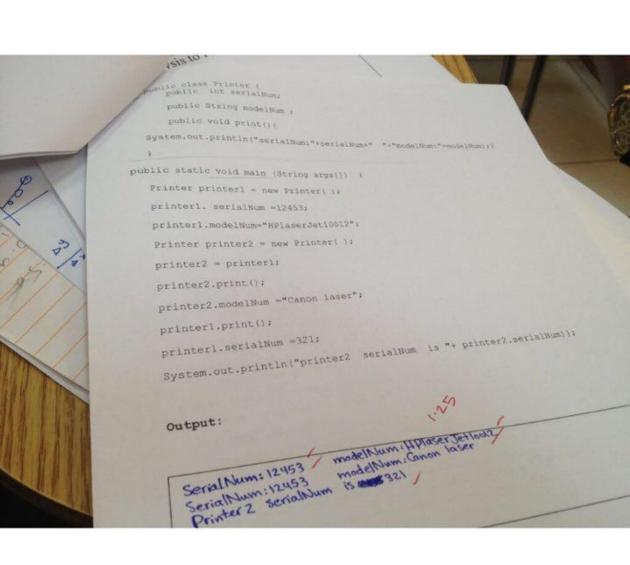


















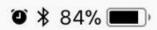
MID_2(33-34H) 5 of 11

```
Find and correct errors in the following code: [3 Marks - 6 errors]
     import static java.lang.Math.*; import static java.lang.Character.*;
    public class errors (
  g. public static void main(String() args) (
       int a= abs(24);
      char capital=isUpperCase('c');
 5.
      String s="hello";
      System.out.println (method(s,2));)
 7.
         public int max(int a,int b){
 8.
 9.
         if(a>=b)
10.
             return a;
11.
          return b;}
12. public static boolean method(String s, char c) {
         if (method(1,2))
13.
            return true;
14.
            return false;}
16. public static void method(int a, int b) (
17. System.out.println(max(8,9));
        for(int i=0;i<a;i++)
18.
           for (int. j=0; j<b; j++)
```

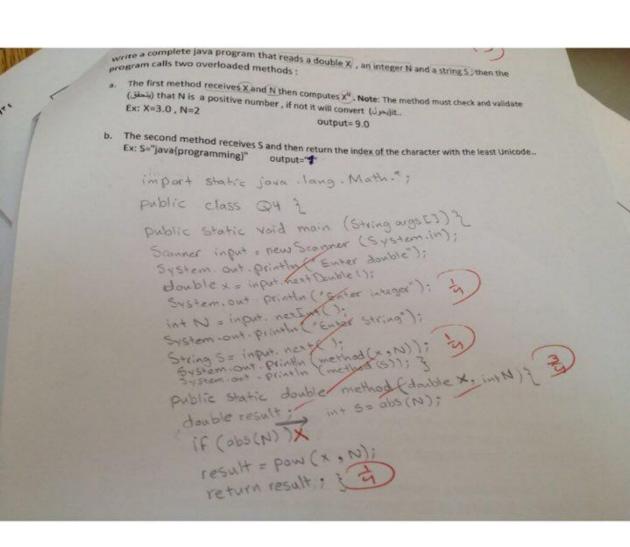






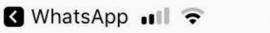


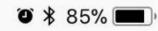












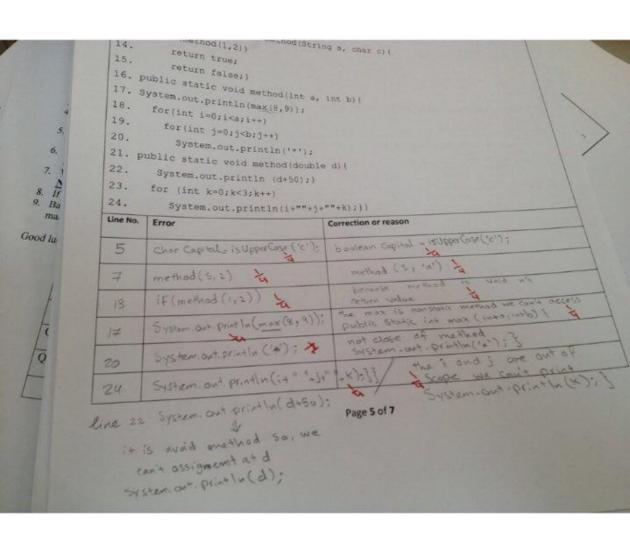
000



NOURA, m, d 6) public static double num=10; public static void main (String args[]) (Scanner read = new Scanner(System.in); int num=3; double x; for(int i=0;i<num;i++)(x=read.nextDouble(); System.out.println(filter(x));)) public static double filter(double x) { double result; if (Math.abs(x)>num) result=Math.ceil(x); Output: Output Input: else result=Math.floor(x); -9.0 X -9.5 12.0 return result;} -11.5 _9.0 -9.0



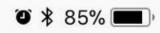




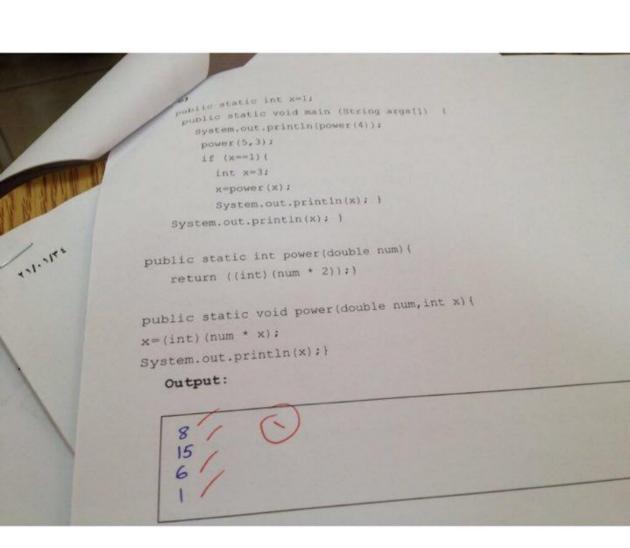
















Q2: Find and correct errors in the following code segments (1 error each): [4 pts.] (0.5 find e

Line

b)

Line

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| 5 | if(nameOfMonth.equals("February")) | 5 | 5,500 |
| 6 | DAYS_OF_MONTH= 28; | | |
| Error | line 5 | Error | line 4 |
| Correction or Reason | if (nomofmonth=="February") (==) - Right one of pub | Correction or Reason | charAt(int) charA(2) |
| Line | c) | Line | d) |
| 1 | int num=520; | 1 | int x=5; |
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| | x); | | |
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| Correction of Leaso | | Correction or Reason | if(! (x < 2))_ |

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| | x); | Error | |
| Error | (line 4) .2 F% not for string for string for string | | line 2 |
| orrec on or | System. out. Print F ("1.d.0/05 -0/02 Roy in, | Correction or Reason | if(! (x < 2))_ |
| - | num, 5tr, +); | 1000 | |



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×

Q1: State if the following statements are True or False: [3 pts. =0.75 each]

| Statement | True/False |
|--|------------|
| We can specify array size by either declaring it as a constant or reading it from the user during program execution. | - |
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| | 0-75 |







