

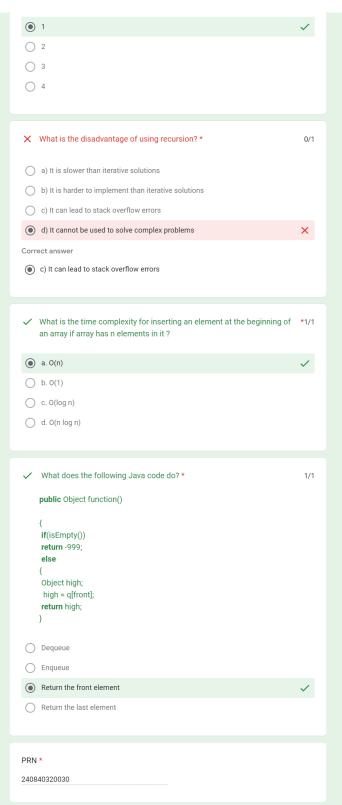
```
X What is the output of the following recursive function call? *
                                                                                                                                                                                                                                                 0/1
              public class Main
                            static void printString(String str) {
                                         if (str.length() == 0) {
                                                      return;
                                          printString(str.substring(1));
                                          System.out.print(str.charAt(0) + " ");
                            public static void main(String[] args) {
                                          printString("hello");
  a) hello
  O b) olleh
   O c) h l l o e
   Od) Compilation Error
Correct answer
  b) olleh
Centre: *
Kharghar
O Juhu
   What is the base case in recursion? *
                                                                                                                                                                                                                                                   1/1

    a) The case where the recursion starts

    b) The case where the recursion ends

   O the case where the recursion reaches its maximum depth
   \begin{picture}(20,0)\put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){100}
  X What is the output of the following recursive function call? *
                                                                                                                                                                                                                                                  0/1
              public class Main
                     static void printBinary(int n) {
                                        if (n > 1) {
                                                      printBinary(n / 2);
                                          System.out.print(n % 2);
                            public static void main(String[] args) {
                                        printBinary(13);
  a) 1101
  b) 1011
   O c) 0110
  ( ) Compilation Error
Correct answer
  a) 1101
 ✓ public class Main
                                                                                                                                                                                                                                                   1/1
                            static int power(int base, int exponent) {
```

```
if (exponent == 0) {
                 return 1;
        return base * power(base, exponent - 1);
        public static void main(String[] args) {
             System.out.println(power(5, 4));
a) Compilation Error
 ( b) 225
( c) 625
 O d) 125
X What is the output of the following recursive function call? *
                                                                           0/1
    public class Main
        static int factorial(int n) {
            if (n == 0) {
                return 1;
            return n * factorial(n - 1);
        public static void main(String[] args) {
             factorial(5);
 a) Compilation Error
 O b) 60
(e) c) 120
 O d) No Output
Correct answer
(a) No Output
✓ Consider the usual algorithm for determining whether a sequence of
    parentheses is balanced. Suppose that you run the algorithm on a
    sequence that contains 2 left parentheses and 3 right parentheses (in
    some order). The maximum number of parentheses that appear on the
    stack AT ANY ONE TIME during the computation?
O 1
2
○ 3
 4 or more
Name: *
Chitransh Mrigank Singh
Consider the following operation performed on a stack of size 5.
                                                                          *1/1
    Push(1);
    Pop();
    Push(2);
    Push(3);
    Pop();
    Push(4);
    Pop();
    Pop();
    Push(5);
    After the completion of all operation, the number of elements present in
```



This content is neither created nor endorsed by Google. Report Abuse - Terms of Service - Privacy Policy