Dashboard (http://kmitonline.com/student/dashboard.php) / Review

Started on	Tuesday, 12 April 2022, 2:54 PM
State	Finished
Completed on	Tuesday, 12 April 2022, 3:13 PM
Time taken	19 mins 44 secs
Marks	12.00/15.00
Grade	80.00 out of 100.00

```
abstract class demo
    public int a;
    demo()
       a = 10;
    abstract public void set();
    abstract final public void get();
class Test extends demo
    public void set(int a)
       this.a = a;
    final public void get()
       System.out.println("a = " + a);
    public static void main(String[] args)
       Test obj = new Test();
       obj.set(20);
       obj.get();
```

a.
 None of the above

b.
 Compilation error

c.
 a = 20

Select one:

a.

X-1 Y-3 Z-2

a = 10

```
      b.

      x-2 y-1 z-3

      c.

      x-3 y-1 z-2

      d.

      x-3 y-2 z-1
```

```
#include <stdio.h>
int main()
{
    static int i=5;
    if(--i) {
        main();
        printf("%d ",i);
    }
}
```

a.

Compiler Error

- b. 1 2 3 4
- c.0000
- d. 4321

```
#include <stdio.h>
struct sample {
    int a = 0;
    char b = 'A';
    float c = 10.5;
};
int main()
{
    struct sample s;
    printf("%d, %c, %f", s.a, s.b, s.c);
    return 0;
}
```

a.

No Error, No Output

b.

0, A, 10.500000

_ C.

0, A, 10.5

d. error

```
#include <stdio.h>
int fun(char *str1)
{
    char *str2 = str1;
    while(*++str1);
    return (str1-str2);
}
int main()
{
    char *str = "abcdefghi";
    printf("%d", fun(str));
    return 0;
}
```

a. 10

b.8

c. 9

d.

Random Number

```
You are given a list of 5 integers and these integers are in the range from 1 to 6.
 There are no duplicates in list.
 One of the integers is missing in the list.
 Which of the following expression would give the missing number.
 ^ is bitwise XOR operator.
 ~ is bitwise NOT operator.
Let elements of list can be accessed as list[0], list[1], list[2], list[3], list[4]
Select one:
( a.
   list[0] ^ list[1] ^ list[2] ^ list[3] ^ list[4] ^ 1 ^ 2 ^ 3 ^ 4 ^ 5
b.
    list[0] ^ list[1] ^ list[2] ^ list[3] ^ list[4] ^ 1 ^ 2 ^ 3 ^ 4 ^ 5 ^ 6
( C.
   list[0] ^ list[1] ^ list[2] ^ list[3] ^ list[4]
d.
    ~(list[0] ^ list[1] ^ list[2] ^ list[3] ^ list[4])
```

```
What change should be made to code work
struct node
int data;
struct node *next;
} ;
struct node *head=0;
void create(int ele)
struct node *nptr, *tptr;
nptr=(struct node *)malloc(sizeof(struct node));
nptr->data=ele;
if(head==0) // Line A
tptr=head=nptr;
else
tptr->next=nptr;
tptr=nptr;
nptr->next=0; // Line B
```

a.

Compiles fine but resutls in segementation fault

b.

If we replace Line A and Line B from 0 to NULL the code works

_ C.

Compilation fails

d.

No Changes required the code works fine

Consider the following two sequences:

 $X = \langle B, C, D, C, A, B, C \rangle$, and

 $Y = \langle C, A, D, B, C, B \rangle$

The length of longest common subsequence of X and Y is:

Select one:

- a. 4
- (b. 3
- c. 2
- od. 5

Select the appropriate code which tests for a palindrome.

Select one:

a.

```
public static void main(String[] args)
        System.out.print("Enter any string:");
        Scanner in=new Scanner(System.in);
        String input = in.nextLine();
        Stack<Character> stk = new Stack<Character>();
        for (int i = 0; i < input.length(); i++)</pre>
            stk.push(input.charAt(i));
        String reverse = "";
        while (!stk.isEmpty())
            reverse = reverse + stk.pop();
                        stk.pop();
        if (input.equals(reverse))
        System.out.println("palindrome");
        else
            System.out.println("not a palindrome");
```

b.

```
public static void main(String[] args)
        System.out.print("Enter any string:");
        Scanner in=new Scanner(System.in);
        String input = in.nextLine();
        Stack<Character> stk = new Stack<Character>();
        for (int i = 0; i < input.length(); i++)</pre>
            stk.push(input.charAt(i));
        String reverse = "";
        while (!stk.isEmpty())
            reverse = reverse + stk.pop();
                        stk.pop();
        if (!input.equals(reverse))
        System.out.println("palindrome");
        else
            System.out.println("not a palindrome");
```

C.

```
public static void main(String[] args)
        System.out.print("Enter any string:");
        Scanner in=new Scanner(System.in);
        String input = in.nextLine();
        Stack<Character> stk = new Stack<Character>();
        for (int i = 0; i < input.length(); i++)</pre>
            stk.push(input.charAt(i));
        String reverse = "";
        while (!stk.isEmpty())
            reverse = reverse + stk.pop();
        if (input.equals(reverse))
        System.out.println("palindrome");
        else
        System.out.println("not a palindrome");
```

d.

```
public static void main(String[] args)
        System.out.print("Enter any string:");
        Scanner in=new Scanner(System.in);
        String input = in.nextLine();
        Stack<Character> stk = new Stack<Character>();
        for (int i = 0; i < input.length(); i++)
           stk.push(input.charAt(i));
        String reverse = "";
        while (!stk.isEmpty())
           reverse = reverse + stk.peek();
        if (input.equals(reverse))
        System.out.println("palindrome");
        else
           System.out.println("not a palindrome");
```

```
class Test {
   public static void main(String[] args) {
     for(int i = 0; 0; i++)
     {
        System.out.println("Hello");
        break;
     }
   }
}
```

Empty Output

b. hello
c.

d.

Compiler error

Runtime error

```
import static java.lang.System.*;

class StaticImportDemo
{
    public static void main(String args[])
    {
        out.println("welcome to programming");
    }
}
```

Select one:

a.

None of the above

b.

welcome to programming

Compiler Error

d.
Runtime Error

```
#include <stdio.h>
int var = 20;
int main()
{
   int var = 5;
   int value = var;
   printf("%d ", value);
   return 0;
}
```

Select one:

a. 5

b.

Garbage Value

() C.

Compiler Error

d. 20

Consider the polynomial $p(x) = a0 + a1x + a2x^2 + a3x^3$, where ai != 0, for all i. The minimum number of multiplications needed to evaluate p on an input x is:

Select one:

- a. 4
- b. 3
- _ c. 9
- _ d. 6

Select one:

- a. same
- b. not same
- _ C.

None of these

() d.

Compilation fails

```
Following is C like pseudo code of a function that takes a number as an argument, and uses a stack S to do processing.
void fun(int n)
   Stack S; // Say it creates an empty stack S
   while (n > 0)
     // This line pushes the value of n%2 to stack S
     push(&S, n%2);
     n = n/2;
   // Run while Stack S is not empty
   while (!isEmpty(&S))
     printf("%d ", pop(&S)); // pop an element from S and print it
What does the above function do in general?
```

Select one:

a.

Prints binary representation of n in reverse order

(b.

No Error, No Output
Prints the value of Logn in reverse order
C.
Prints binary representation of n
d.
Prints the value of Logn