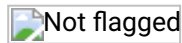


DESD-AUG-2017 - Internal Tests

Question 1

Complete

Mark 1 out of 1



Not flagged

Flag question

Question text

What will be the output of following code:

```
int main()
{
    int p=6,q=2,r=0;
    r=(q<5)?(p<5)?q-p:p-q:r-q;
    p=(r)?(q<5)?p+q:r+2:p+3;
    printf("%d %d",r,p);
    return 0;
}
```

Select one:

- ☐ A. 6 0
- ☐ B. -4 8
- ☐ C. 8 4
- ☒ D. 4 8

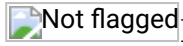
Feedback

The correct answer is: 4 8

Question 2

Complete

Mark 0 out of 1



Flag question

Question text

Which of the following sorting algorithms has lowest worst-case complexity?

Select one:

- ☐ A. Merge Sort
- ☐ B. Bubble Sort
- ☐ C. Quick sort
- ☒ D. Selection sort

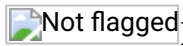
Feedback

The correct answer is: Merge Sort

Question 3

Complete

Mark 0 out of 1



Flag question

Question text

What will be output?

```
#include <stdio.h>
```

```
#define g(x,y) "x ## y"
```

```
void f();
```

```
int main()
```

```
{
```

```
#define func(x, y) x / y + x f();
```

```
printf("%s ",g(2,3));
```

```
}
```

```
void f()
```

```
{
```

```
printf("%d\t", func(-3, 3));
```

```
}
```

Select one:

- ☐ A. -3 23
- ☒ B. 4 23
- ☐ C. -4 x ## y
- ☐ D. 4 x ## y

Feedback

The correct answer is: -4 x ## y

Question 4

Complete

Mark 0 out of 1



Remove flag

Question text

What will be output?

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
char *str="Sunbeam\0""Pune";
```

```
printf("%s %s",str,str+8);
```

```
}
```

Select one:

- ☐ A. Sunbeam
- ☐ B. Sunbeam Pune
- ☐ C. Garbage value
- ☒ D. Compiler error

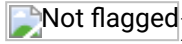
Feedback

The correct answer is: Sunbeam Pune

Question 5

Complete

Mark 0 out of 1



Flag question

Question text

What will be output?

```
#include <stdio.h>
```

```
void func(int **p)
```

```
{
```

```
int j = 2;
```

```
*p = &j;
```

```
printf("%d ", **p);
```

```
}
```

```
int main()
```

```
{
```

```
int i = 23, *p = &i;
```

```
func(&p);
```

```
printf("%d ", *p);
```

```
return 0;
```

```
}
```

Select one:

- ☐ A. 2 2
- ☐ B. 2 23
- ☐ C. Undefined behaviour
- ☒ D. Segmentation fault

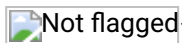
Feedback

The correct answer is: 2 2

Question 6

Complete

Mark 1 out of 1



Flag question

Question text

What will be the output?

```
#include <stdio.h>
```

```
void main()
```

```
{
```

```
float x = 0.1;
```

```
if (x == 0.1)
```

```
    printf("Sunbeam");
```

```
else
```

```
    printf("Pune");
```

```
}
```

Select one:

- ☐ A. Sunbeam
- ☒ B. Pune
- ☐ C. Run time error
- ☐ D. Compile time error

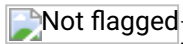
Feedback

The correct answer is: Pune

Question 7

Complete

Mark 1 out of 1



Flag question

Question text

For the following program, Which of the following should be used for freeing the memory allocated? #include <stdio.h>

```
struct p {
```

```
    struct p *next;
```

```
    int x;
```

```
};
```

```
int main()

{

struct p *p1 = (struct p*)malloc(sizeof(struct p));

p1->x = 1;

p1->next = (struct p*)malloc(sizeof(struct p));

return 0;

}
```

Select one:

- ☐ A. free(p1); free(p1->next)
- ☒ B. free(p1->next); free(p1);
- ☐ C. free(p1);
- ☐ D. All of the mentioned

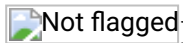
Feedback

The correct answer is: free(p1->next); free(p1);

Question 8

Complete

Mark 0 out of 1



Not flagged

Flag question

Question text

What is the output of this C code?

```
#include <stdio.h>
```

```
int f(char chr, ...);
```

```
int main()
```

```
{
```

```
char c = 97;
```

```
f(c,3,2);
```

```
return 0;
```

```
}
```

```
int f(char c, ...)
```

```
{  
  
printf("%c\n", c);  
  
}
```

Select one:

- ☒ A. Compile time error
- ☐ B. Undefined behaviour
- ☐ C. 97
- ☐ D. a

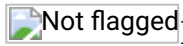
Feedback

The correct answer is: a

Question 9

Complete

Mark 1 out of 1



Flag question

Question text

The index of the last argument in command line arguments is

Select one:

- ☐ A. argc - 2
- ☐ B. argc + 1
- ☐ C. argc
- ☒ D. argc - 1

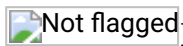
Feedback

The correct answer is: argc - 1

Question 10

Complete

Mark 1 out of 1



Flag question

Question text

```
#include <stdio.h>
```

```
void main()
```

```
{
```

```
int k = 4;

float k = 4;

printf("%d", k)

}
```

Select one:

- ☒ A. Compile time error
- ☐ B. 4
- ☐ C. 4.0000000
- ☐ D. 4.4

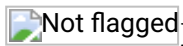
Feedback

The correct answer is: Compile time error

Question 11

Complete

Mark 1 out of 1



Not flagged Flag question

Question text

What will be output of following code:

```
#include <stdio.h>
```

```
void main()
```

```
{
```

```
int x = 0;
```

```
int *ptr = &5;
```

```
printf("%p\n", ptr);
```

```
}
```

Select one:

- ☐ A. 5
- ☐ B. Address of 5
- ☐ C. Nothing
- ☒ D. Compile time error

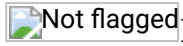
Feedback

The correct answer is: Compile time error

Question 12

Complete

Mark 1 out of 1



Flag question

Question text

What will be output of following code:

```
struct integers{
    int x; int y; int z;
} arr[3], *ptr;

int main()
{
    ptr=arr;
    ptr->x=5;
    ptr->y=ptr->x;
    printf("%d %d %d",arr[0].x,ptr[0].y,arr[0].z);
    return 0;
}
```

Select one:

- ☐ A. 0 0 0
- ☐ B. 5 5 5
- ☒ C. 5 5 0
- ☐ D. Any garbage value

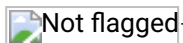
Feedback

The correct answer is: 5 5 0

Question 13

Complete

Mark 0 out of 1



Flag question

Question text

What will be the output of following code?

```
#include <stdio.h>

int main()

{

char str[10] = "hello";

char *p = strrchr(str, 'l');

printf("%c %s\n",*p,(++p));

}
```

Select one:

- ☐ A. l llo
- ☒ B. l lo
- ☐ C. o o
- ☐ D. h hello

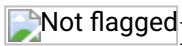
Feedback

The correct answer is: o o

Question 14

Complete

Mark 0 out of 1



Flag question

Question text

Which of the following expression is true for the following? ptr is array with 3 elements of pointer to function returning pointer of int

Select one:

- ☐ A. int **ptr[3]();
- ☐ B. int *(*ptr[3])();
- ☐ C. int ((*ptr[3])());
- ☒ D. None of the mentioned

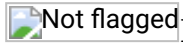
Feedback

The correct answer is: int *(*ptr[3])();

Question 15

Complete

Mark 1 out of 1



Flag question

Question text

Evaluate Postfix expression from given infix expression $A+B*(C+D)/F+D*E$

Select one:

- ☐ A. $AB+CD*F/+D*E$
- ☒ B. $ABCD+*F/+DE*+$
- ☐ C. $ABCD+*/F+DE*$
- ☐ D. $AB+CD*F/+DE*$

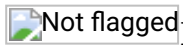
Feedback

The correct answer is: $ABCD+*F/+DE*+$

Question 16

Complete

Mark 1 out of 1



Flag question

Question text

The time complexity of merge sort is

Select one:

- ☐ A. $O(n)$
- ☐ B. $O(\log n)$
- ☐ C. $O(n^2)$
- ☒ D. $O(n \log n)$

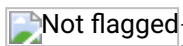
Feedback

The correct answer is: $O(n \log n)$

Question 17

Complete

Mark 0 out of 1



Flag question

Question text

How many pointers are necessarily changed for insertion in linked list?

Select one:

- ☐ A. One
- ☐ B. Three
- ☒ C. Two
- ☐ D. Zero

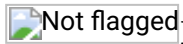
Feedback

The correct answer is: Three

Question 18

Complete

Mark 1 out of 1



Flag question

Question text

Which of the following statement is true?

- (I) Binary search algorithm is used for searching in a sorted array.
- (II) Time complexity of binary search algorithm is $O(n \log n)$.
- (III) Using singly linked lists it is not possible to traverse the list in reverse direction.
- (IV) Dequeue is a data structure where elements can be added or removed at either end but not in middle.

Select one:

- ☒ A. (I),(III),(IV)
- ☐ B. (I),(III)
- ☐ C. (I),(IV)
- ☐ D. (I),(II),(III),(IV)

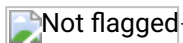
Feedback

The correct answer is: (I),(III),(IV)

Question 19

Complete

Mark 1 out of 1



Flag question

Question text

Consider the following operations performed on stack of size 5 Push(1) Push(2) Push(3) Pop() Pop() Push(4) Push(5) Pop() Pop() Push(6) After completion of all operation, the

number of elements present in stack are:

Select one:

- ☐ A. Stack overflow
- ☐ B. One
- ☒ C. Two
- ☐ D. Three

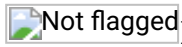
Feedback

The correct answer is: Two

Question 20

Complete

Mark 0 out of 1



Flag question

Question text

A normal queue, if implemented using an array of size MAX_SIZE, gets full when

Select one:

- ☐ A. $\text{front} = (\text{rear} + 1) \% \text{MAX_SIZE}$
- ☐ B. $\text{front} = \text{rear} + 1$
- ☒ C. $\text{rear} = \text{front}$
- ☐ D. $\text{rear} = \text{MAX_SIZE} - 1$

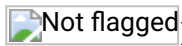
Feedback

The correct answer is: $\text{rear} = \text{MAX_SIZE} - 1$

Question 21

Complete

Mark 0 out of 1



Flag question

Question text

What does the following function do for a given linked list with first node as head?

struct node

{

int data; node* next;

};

```
void function(struct node* head)
{
if(head == NULL)

return;

function(head->next);

printf("%d ",head->data);

}
```

Select one:

- ☒ A. Prints all nodes of linked list
- ☐ B. Prints alternate nodes of linked list
- ☐ C. Prints alternate nodes of linked list in reverse order
- ☐ D. Prints all nodes of linked list in reverse order

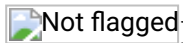
Feedback

The correct answer is: Prints all nodes of linked list in reverse order

Question 22

Complete

Mark 0 out of 1



Flag question

Question text

Which of the following is not true about circular linked list?

Select one:

- ☐ A. Time complexity for deleting the last node is $O(n)$
- ☐ B. Time complexity of inserting a new node at the head of list is $O(1)$
- ☐ C. Every node has a successor
- ☒ D. none of the above mentioned

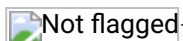
Feedback

The correct answer is: Time complexity of inserting a new node at the head of list is $O(1)$

Question 23

Complete

Mark 1 out of 1



Flag question

Question text

```
int main ()  
  
{  
  
int i, j; char arr1 [2] [3] = {{'p', 'q', 'r'}, {'x', 'y', 'z'}};  
  
char arr2 [3] [2];  
  
char *ptr = *arr2;  
  
for (i = 0; i < 2; i++)  
  
{  
  
for (j = 0; j < 3; j++)  
  
{  
  
*(ptr + 2*j + i) = arr1 [i] [j];  
  
}  
  
}  
  
}
```

What should be the contents of arr2 at the end of program?

Select one:

- ☐ A. p q r x y z
- ☒ B. p x q y r z
- ☐ C. p r y q x z
- ☐ D. p z q y r x

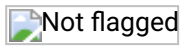
Feedback

The correct answer is: p x q y r z

Question 24

Complete

Mark 1 out of 1



Flag question

Question text

Considering following code snippet what will be the output?

```
String str1=new String ("Sunbeam");
```

```
String str2=new String ("Sunbeam");
```

```
String str3="Sunbeam"
```

```
String str4="Sunbeam"
```

```
if(str1=str2)
```

```
System.out.println("Equal");
```

```
else
```

```
System.out.println("Not Equal");
```

```
if(str3 == str4)
```

```
System.out.println("Equal");
```

```
else
```

```
System.out.println("Not Equal");
```

Select one:

- ☐ A. Equal Equal
- ☒ B. Not Equal Equal
- ☐ C. Equal Not Equal
- ☐ D. Not Equal Not Equal

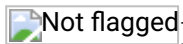
Feedback

The correct answer is: Not Equal Equal

Question 25

Complete

Mark 0 out of 1



Not flagged

Flag question

Question text

Which of the following statement is not true for static keyword in java?

Select one:

- ☒ A. static methods can not refer to this or super in any way.
- ☐ B. static methods must only access static data.
- ☐ C. static methods can call other static methods only.
- ☐ D. when object of class is declared, each object contains its own copy of static variables.

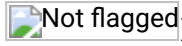
Feedback

The correct answer is: when object of class is declared, each object contains its own copy of static variables.

Question 26

Complete

Mark 0 out of 1



Flag question

Question text

Multiple inheritance means:

Select one:

- ☐ A. one class inheriting from more super classes
- ☒ B. more classes inheriting from one super class
- ☐ C. more classes inheriting from more super classes
- ☐ D. None of above

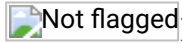
Feedback

The correct answer is: one class inheriting from more super classes

Question 27

Complete

Mark 0 out of 1



Flag question

Question text

What will be the output?

class division

```
{  
public static void main(String args[])  
  
{  
  
try  
  
{  
  
int x, y; x = 0; y = 5 / b;  
  
System.out.print("AA");
```

```
}  
  
catch(ArithmeticException e)  
{  
    System.out.print("BB");  
}  
  
finally  
{  
    System.out.print("CC");  
}  
}  
}
```

Select one:

- ☐ A. AA
- ☒ B. AABB
- ☐ C. BBCC
- ☐ D. AACC

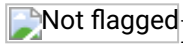
Feedback

The correct answer is: BBCC

Question 28

Complete

Mark 0 out of 1



Flag question

Question text

Which of the following is not true?

Select one:

- ☐ A. An interface can extend another interface.
- ☐ B. An class which is implementing an interface must implement all the methods of the interface.
- ☐ C. An interface can implement another interface.
- ☒ D. None of the above

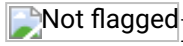
Feedback

The correct answer is: An interface can implement another interface.

Question 29

Complete

Mark 0 out of 1



Flag question

Question text

What is the process of defining a method in subclass having same name & type signature as a method in its superclass?

Select one:

- ☒ A. Method overloading
- ☐ B. Method hiding
- ☐ C. Method overriding
- ☐ D. None of the mentioned

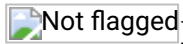
Feedback

The correct answer is: Method overriding

Question 30

Complete

Mark 1 out of 1



Flag question

Question text

Consider the following statements about java packages:

I. Packages don't provide a mechanism to partition all class names into more manageable chunks.

II. Packages provide a visibility control mechanism.

III. One of the important properties of a package is that all classes defined inside a package is accessible by code outside that package.

IV. The .class files for classes declared to be part of a package can be stored in multiple directories.

Which of them is correct?

Select one:

- ☐ A. Only(I)
- ☒ B. Only(II)

- ☐ C. Only(III)
- ☐ D. All of the above

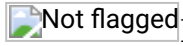
Feedback

The correct answer is: Only(II)

Question 31

Complete

Mark 0 out of 1



Flag question

Question text

What is the output of this program?

```
class Test

{

int i; int j;

Test()

{

i = 11; j = 22;

}

}

class Program

{

public static void main(String args[])

{

Test obj1 = new Test();

Test obj2 = new Test();

System.out.print(obj1.equals(obj2));

}

}
```

Select one:

- ☐ A. false.
- ☒ B. true
- ☐ C. 1
- ☐ D. Compilation Error

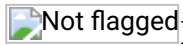
Feedback

The correct answer is: false.

Question 32

Complete

Mark 0 out of 1



Flag question

Question text

Which of the following is not true?

Select one:

- ☐ A. A class containing abstract methods is called abstract class
- ☒ B. Abstract methods should be implemented in derived class.
- ☐ C. An abstract class cannot have non-abstract methods.
- ☐ D. None of the above.

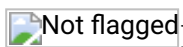
Feedback

The correct answer is: An abstract class cannot have non-abstract methods.

Question 33

Complete

Mark 0 out of 1



Flag question

Question text

A protected member can be accessed in,

Select one:

- ☐ A. a subclass of the same package
- ☒ B. a non-subclass of the same package
- ☐ C. a non-subclass of different package
- ☐ D. a subclass of different package

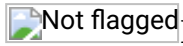
Feedback

The correct answer is: a non-subclass of different package

Question 34

Complete

Mark 1 out of 1



Flag question

Question text

What will be output after execution?

```
#include<stdio.h>
```

```
int func(int num, int k)
```

```
{
```

```
if (num == 0)
```

```
return 0;
```

```
else if (num % 2)
```

```
return func(num/2, 2*k) + k;
```

```
else
```

```
return func(num/2, 2*k) - k;
```

```
}
```

```
int main ()
```

```
{
```

```
printf("%d", func(15, 1));
```

```
return 0;
```

```
}
```

Select one:

- ☐ A. 10
- ☒ B. 15
- ☐ C. 9
- ☐ D. 12

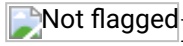
Feedback

The correct answer is: 15

Question 35

Complete

Mark 0 out of 1



Flag question

Question text

Which of the following statements are incorrect?

Select one:

- ☐ A. Default constructor is called at the time of declaration of the object if a constructor has not been defined.
- ☒ B. Constructor can be parameterized.
- ☐ C. finalize() method is called when an object goes out of scope and is no longer needed.
- ☐ D. finalize() method must be declared protected.

Feedback

The correct answer is: finalize() method is called when an object goes out of scope and is no longer needed.

Question 36

Complete

Mark 0 out of 1



Flag question

Question text

What will be the output of the following code:

```
struct numbers
```

```
{
```

```
int x:3; int y:2; int z:3;
```

```
};
```

```
int main()
```

```
{
```

```
struct numbers n={-7,-2,3};
```

```
int a,b; a=n.x&n.y | n.z;
```

```
b=n.x<<2&n.z<<1;
```

```
printf("a=%d b=%d",a,b);
```

```
}
```

Select one:

- ☐ A. 4 3
- ☒ B. 3 0
- ☐ C. 3 4
- ☐ D. 2 4

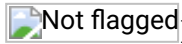
Feedback

The correct answer is: 3 4

Question 37

Complete

Mark 0 out of 1



Not flagged Flag question

Question text

Assume int variable takes 4 bytes and char variable take 1 byte what will be the output?

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
int arr[] = {11,22,33,44,55,66};
```

```
int *ptr1 = arr;
```

```
int *ptr2 = arr + 2;
```

```
printf("(char*)ptr1 %d\n",(char*)ptr1);
```

```
printf("**ptr2 %d\n",(char*)ptr2);
```

```
printf("%d\t%d\t%d", (ptr2 - ptr1),arr[ptr2-ptr1],(char*)ptr2 - (char*) ptr1);
```

```
return 0;
```

```
}
```

Select one:

- ☐ A. 2 22 8
- ☒ B. 1 33 2
- ☐ C. 22 33 8
- ☐ D. 2 33 8

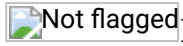
Feedback

The correct answer is: 22 33 8

Question 38

Complete

Mark 0 out of 1



Flag question

Question text

What will be the output of following code?

```
#include <stdio.h>
#include <string.h>
int main()
{
    char *string="DESD";
    for(int i=0;i<strlen(string);i++)
    {
        string++;
        for(int j=1;j<3;j++)
        {
            printf("%d\t",j);
        }
        printf("\n");
    }
}
```

Select one:

☐ A. 1 2

1 2

☒ B. 1 2

1 2

1 2

1 2

☐ C. 1 2 3

1 2 3

1 2 3

1 2 3

☐ D. 1 2 3

1 2 3

Feedback

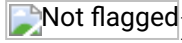
The correct answer is: 1 2

1 2

Question 39

Complete

Mark 0 out of 1



Flag question

Question text

What will be output of following code:

```
#include <stdio.h>
int main()
{
    int i = 0;

    char c = 'a';
    while (i < 2){
        i++;
        c++;
        switch (c) {
            case 'a':
                printf("%c ", c);
                break;
                break;
        }
    }
    printf("after loop\n");
}
```

Select one:

- ☐ A. a b after loop
- ☒ B. a after loop
- ☐ C. after loop
- ☐ D. b after loop

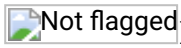
Feedback

The correct answer is: b after loop

Question 40

Complete

Mark 0 out of 1



Flag question

Question text

What will be the output?

```
#include <stdio.h>
#define ABC (x+y)
#if !ABC
int a=30;
#else
int a=50;
#endif
int main(void)
{
    int x=0,y=1;
    x=!y;
    printf("%d %d",a,ABC);
    return 0;
}
```

Select one:

- ☐ A. 30 1
- ☐ B. 30 2
- ☒ C. 50 1
- ☐ D. 50 2

Feedback

The correct answer is: 30 2

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