TEST 5 SET D PROGRAMMING LEVEL 1 What is the output of C Program with arrays? 12 1, 11 12 6 What is the output of the C Program? 10 11 12 **Compiler Error** What will be the output of the below program? void main() char afl = "C++". pnntf("%s ",a); printf("%s",a); ++ ++ C++ C++ C++ ++ **Compiler Error** What will be the output of the program? void mamo float = {12.4, 2.3, 4.5, 6.7}; pnntf("%d", 4

5

6

None of these

```
What is 'y' in the below program?
mt main()
typedef char
anfptr y;
return 0;
'x' is an array of three-pointers
'x' is a pointer
'x' is an array of three function pointers
Error in 'x' declaration
Consider the statement
int val[2] [4] = \{1, 2, 3, 4, 5, 6, 7, 8\};
4 will be the value of
val[0][3]
vla[1][1]
val[0][4]
None of the above
What will be the output of the following program?
void mamo
char strl[] = "abcd";
char str2[] = "abcd";
if(str 1
pnntf("Equal");
Equal
Unequal
Error
None of the above
Which of the following statements are correct about the program below?
mt main()
```

```
mt Size, r;
scanf("%d", &size);
int
; i<=size; i+)
scanf("%d", arr[i]);
prmtf("%d", arr[i]);
The code is erroneous since the statement declaring the array is invalid.
The code is erroneous since the values of the array are getting scanned through the
loop.
The code is correct and runs successfully
The code is erroneous since the subscript for the array used in for loop is in the range
1 to size
Which of the following correctly accesses the seventh element stored in arr, an array with
100 elements?
arr{6}
arr[6]
arr[7]
arr{7}
What will be the output of the following program where c=65474 and int=2 bytes
mt main()
%u\n", c+l, &c+l);
retum 0;
65482, 65498
65476, 65476
65476, 65498
```

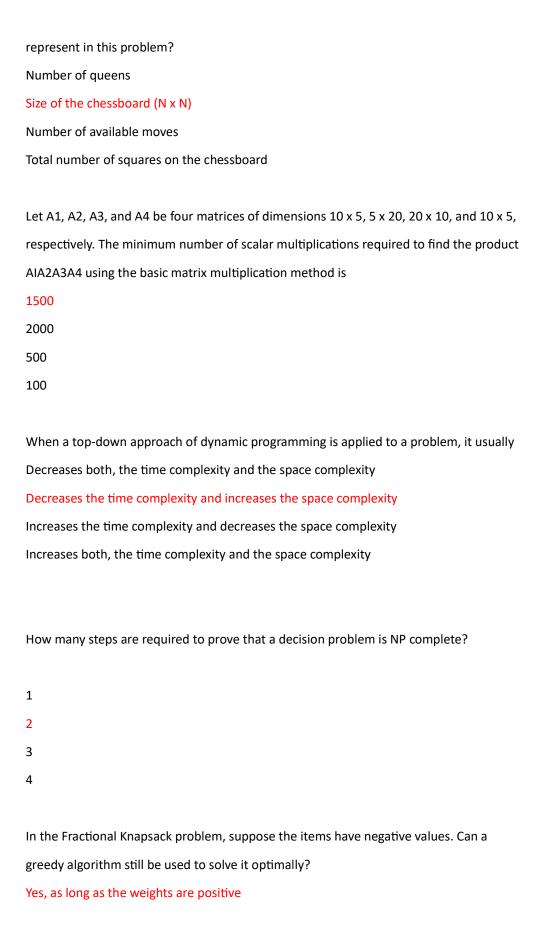
No output

```
What will be output of the following program
mt main()
mt
mt k[4];
Compile Time Error
No output
Program crashes
Which of the following is a two-dimensional array?
array anarray[20][20];
int anarray[20][20];
int array[20, 20];
char array[20];
What will be the output of the below program?
mt mamo
mt arr[2]={20};
O[arJ);
retum 0
0
2
20
16
Which function is not called in the following C program?
#mclude
void first()
void second()
void third()
second();
```

```
void main()
void (*ptr)();
ptr = third;
ptr();
Function first
Function second
Function third
None of the mentioned
How to call a function without using the function name to send parameters?
typedefs
Function pointer
Both typedefs and Function pointer
None of the mentioned
Which of the following is a correct syntax to pass a Function Pointer as an argument?
void pass(int (*fptr)(int, float, char)) {}
void pass(*fptr(int, float, char)) {}
void pass(mt
void pass(*fptr) { }
Which of the following statements about a priority queue in C++ is FALSE?
Elements are ordered based on their priority
It uses a max-heap by default
It supports random access of elements
It does not support the pop operation
Which operation in C++ queues leads to undefined behavior if performed on an empty
queue?
front()
back()
```

```
pop()
size()
Consider a scenario where elements are being enqueued and dequeued from a queue in
a C++ program. Which operation has a time complexity of 0(1)?
Enqueue
Dequeue
Front
Size
What is the correct output of the given code snippets?
*include <iostream>
*Include <deque>
usmg namespace std;
int main()
deque<int> d;
dpush_back(IO);
dpush_back(20);
dpush_back(30);
deque<int>:-.iterator itr = d. begm()
dinsefi(itr, 2, 40);
for (int i = 0; i < d.size(); i+) {
cout d[i] "
return 0;
}
10 20 30 40
10 40 40 20 30
10 2 40 20 30
Syntax error
```

The "N-Queens Problem" is a classic example of a backtracking problem. What does N



No, a greedy algorithm cannot handle negative values
It depends on the specific instance of the problem
None of the above

Given the following input (4322, 1334, 1471, 9679, 1989, 6171, 6173, 4199) and the hash function x mod 10, which of the following statements are true?

i. 9679, 1989, 4199 hash to the same value

ii. 1471, 6171 hash to the same value

iii. All elements hash to the same value

iv. Each element hashes to a different value

i only

ii only

i and ii only

iii or iv

In a singly linked list, to reverse the order of elements, which of the following approaches has the best time complexity?

Traverse the entire list and create a new reversed list.

Use a stack to store the elements of the list and then create a new reversed list.

Modify the links of the nodes in-place to reverse the list.

Traverse the list recursively and reverse the order of elements.

Which of the following is not an application of a queue?

A printer spooler

A job scheduler

A waiting line

A stack

Which of the following functions is used to concatenate a string to another string object in concat()

```
strcat()
```

append()

None of the above

Consider the below left-left rotation pseudo code where the node contains value pointers to left, right child nodes and a height value and Height() function returns height value stored at a particular n

```
avltree leftrotation(avltreenode z):
avltreenode w =x-left
x-left=w-right
w-right=x
x- (x- left) , Height (x- right) ) +1
w-height=max(missing)+l
return
What is missing?
Height(w-left), x-height
Height(w-right), x-height
Height(w-left), x
Height(w-left)
```