1) Find Second largest element in an array

https://www.geeksforgeeks.org/find-second-largest-element-array/

2) Program for factorial of a number

https://www.geeksforgeeks.org/program-for-factorial-of-a-number/

3) C++ Program to check Prime Number

https://www.geeksforgeeks.org/c-program-to-check-prime-number/

Topic: Function Declaration

Question 1: Declare a function number_sum that takes num1 and num2 in input and returns their sum in the output. num1, num2, and the sum can take integer values.

(You can select multiple correct answers)

```
A) int number sum (int num1, int num2)
```

- B) int number sum (int num1, int num2);
- C) int number_sum (int , int)
- D) int number_sum (int , int);

Topic: Function Calling

```
int number_sum (int num1 , int num2){
return num1 + num2;
}
int main() {
 float value1 = 10.1;
 float value2 = 20.9;
 int sum = number_sum ( value1 , value2 );
 cout << sum;
 return 0;
}
   A) 30.9
   B) 31
   C) 30
   D) 29
Topic: Pass by Value in functions
Question 3: What is the output of the following code?
void cube(int number) { //new number –dynamic memory –no
 number = number * number * number;
 cout << "number = " << number << endl;</pre>
}
int main() {
 int number = 5;
 cube(number);
 cout << "number = " << number << endl;</pre>
 return 0;
}
A)
number = 5
number = 5
B)
number = 125
```

number = 125

```
C)
number = 125
number = 5
D)
number = 5
number = 125
Topic: Scope of Variables
Question 4: What is the output of the following code?
void function1 () {
 cout << "global = " << global << endl;
}
int global = 3;
void function2 () {
 cout << "global = " << global << endl;
int main() {
 cout << "global = " << global << endl;
 function1();
function2();
}
A)
3
3
3
B)
3
3
C)
3
D)
Error
```

Topic: Overwriting the value of global variable

Question 5:

local = 20

What is the output of the following code?

```
void function (int local) {
 local = 10;
 cout << "local = " << local << endl;
int main() {
 int local = 20;
function (local);
cout << "local = " << local << endl;
}
A)
local = 10
local = 20
B)
local = 20
local = 10
C)
local = 10
local = 10
D)
local = 20
```

```
Q6) What is the output?
#include <iostream>
using namespace std;
int main() {
int a = 10;
while(a > 5) { 10>5
int a = 1; //- ----
cout << a << " ";
A--; //a=0
}
}
Options
This problem has only one correct answer
   a) 109876
   b) 11111
   c) Error
   d) Infinite loop
Q7) What is the output of the following program?
#include<iostream>
using namespace std;
```

int getValue(int x = 0, int y = 0, int z){

```
return (x + y + z);
}
int main(){
cout << getValue(10);
return 0;
}
Options
This problem has only one correct answer
   a) 10
   b) 0
   c) 20
   d) Compilation Error
Q8) Can we create Jagged Arrays in C++?
ANS:- j
Q9) #include <iostream>
using namespace std;
int main(){
int p = 5;
int const *q = &p;
p++;
cout << p << endl;
return 0;
Q 10) Which statement(s) will give an error for the following code -
#include <iostream>
using namespace std;
int main(){
int p = 5;
int * const q = &p;
}
```

```
int * const q = &p; => q+ -no container
int const *q = &p; => q = x
Container — in-container
======> This problem may have one or more correct answers
   a) p++;
   b) q++;
   c) (*q)++;
Q 11) Which statement(s) will give an error for the following code -
#include <iostream>
using namespace std;
int main(){
const int p = 5;
int const *q = &p;
}
Options
This problem may have one or more correct answers
   a) p++;
   b) q++
   c) (*q)++;
```

https://leetcode.com/problems/repeated-string-match/

https://leetcode.com/problems/median-of-two-sorted-arrays/

Does s contain t?

Given two string s and t, write a function to check if s contains all characters of t (in the sar	ne order as
they are in string t).	

Return true or false.

Do it recursively.

E.g. : s = "abchjsgsuohhdhyrikkknddg" contains all characters of t="coding" in the same order. So function will return true.

Input Format:

Line 1: String s

Line 2: String t

Output Format:

true or false

Sample Input 1:

Abchjsgsuohhdhyrikkkddg

C o d i

Coding

if(t.size()!=i) return -1;

Sample Output 1:

true

Sample Input 2:

abcde

aeb

Sample Output 2 :

false