

MCQ

1. We can declare all types of variables in javascript using Keyword(Easy)(Programming
Fundamentals - JavaScript)
a. var
b. obj
c. jvar
d. None of these
Answer: a
2. What will be the output of the following code snippet? (Easy)(Programming Fundamentals - JavaScript)
var a = "Scaler";
var result = a.substring(2, 4);
console.log(result);
a. al
b. ale
c. cal
d. caler
Answer: a
3. What keyword is used to check whether a given property is valid or not? (Easy)(Programming Fundamentals
JavaScript)
a. in
b. is in
c. exists
d. lies
Answer: a
4. JavaScript is ideal to (Easy)(Programming Fundamentals - JavaScript)
a. make computations in HTML simpler
b. increase the download time for the client
c. increase the loading time of the website
d. minimize storage requirements on the web server
Answer: d
5. JavaScript code can be calling by using (Easy)(Programming Fundamentals - JavaScript)
a. RMI
b. function/method
c. Preprocessor
d. Triggering event
Answer: b



6. What kind of expression is "new Point(2,3)"? (Easy)(Programming Fundamentals - JavaScript)
a. Primary expression
b. invocation expression
c. Object creation expression
d. Constructor calling expression
Answer: c
7. It is a common practice to declare arrays with the keyword. (Easy)(Programming Fundamentals -
JavaScript)
a. var
b. let
c. const
d. none of the above
Answer: c
8. What will happen if a return statement does not have an associated expression? (Easy)(Programming
Fundamentals - JavaScript)
a. It will throw an exception
b. It returns the value 0
c. It will throw an error
d. It returns the undefined value
Answer: d
9. The method that performs the search-and-replace operation to strings for pattern matching is
(Easy)(Programming Fundamentals - JavaScript)
a. replace()
b. add()
c. edit
d. searchandreplace()
Answer: a
10. When an operator's value is NULL, the typeof returned by the unary operator is: (Easy)(Programming
Fundamentals - JavaScript)
a. Boolean
b. Undefined
c. Object
d. Integer
Answer: c
11. What will be the output of the following code snippet? (Easy)(Programming Fundamentals - JavaScript)
var a = 1;
var b = 0;
while (a <= 3)
{



```
a++;
     b += a * 2;
     console.log(b);
   }
a. 4 10 18
b.123
c. 1 4 7
d. None of the above
Answer: a
12. What will be the output of the following code snippet? (Easy)(Programming Fundamentals - JavaScript)
   var a = Math.max();
   var b = Math.min();
   console.log(a);
   console.log(b);
a. -infinity infinity
b. infinity –infinity
c. infinity infinity
d. -infinity -infinity
Answer: a
13. What will be the output of the following code snippet? (Easy)(Programming Fundamentals - JavaScript)
   var a = Math.max() < Math.min();</pre>
   var b = Math.max() > Math.min();
   console.log(a);
   console.log(b);
a. true false
b. false true
c. true true
d. false false
Answer: a
14. What will be the output of the following code snippet? (Easy)(Programming Fundamentals - JavaScript)
   var a = true + true + true * 3;
   console.log(a)
a. 3
b. 0
c. Error
d. 5
Answer: d
```

15. What will be the output of the following code snippet? (Medium)(Programming Fundamentals - JavaScript) var a = "hello"; var sum = 0;



for(var i = 0; i < a.length; i++) {	
sum += (a[i] - 'a');	
}	
console.log(sum);	
a. 47	
b. NaN	
c. 0	
d. None of the above	
Answer: b	
16. Initialization of a variable can be done by writing	operator in between variable name and
operand value(Easy)(Programming Fundamentals - JavaScript)	•
a. Equals	
b. =	
c. Value	
d. ==	
Answer: b	
<pre>const obj1 = {Name: "Hello", Age: 16}; const obj2 = {Name: "Hello", Age: 16}; console.log(obj1 === obj2); a. true b. false c. Undefined</pre>	
d. None of the above	
Answer: b	
Allswel. D	
18. An is a special variable, which can hold more than one JavaScript) a. string b. integer c. character d. array Answer: d	value (Easy)(Programming Fundamentals
19. Recursion is a method in which the solution of a problem depend	ds on (Easy)(Programming
Fundamentals - JavaScript)	
a. Larger instances of different problems	
b. Larger instances of the same problem	
c. Smaller instances of the same problem	
d. Smaller instances of different problems	
Answer: c	

b. 0



20. Which of the following problems can't be solved using recursion? (Easy)(Programming Fundamentals - JavaScript) a) Factorial of a number b) Nth fibonacci number c) Length of a string d) Problems without base case Answer: d
21. In recursion, the condition for which the function will stop calling itself is (Easy)(Programming Fundamentals - JavaScript) a) Best case b) Worst case c) Base case d) There is no such condition Answer: c
22. If an array with five elements a=[1,2,3,4,5]; what will do the expression a.length=0 (Easy)(Programming Fundamentals - JavaScript) a) checks length of array is 0 or not b) deletes all elements c) replaces all elements with 0 d) adds 0 at the beginning Answer: b
23. While iterating elements of an array a,
24. The method in JavaScript is a general purpose method for inserting or removing elements from an array. (Easy)(Programming Fundamentals - JavaScript) a) Array.join() b) Array.concat() c) Array.slice() d) Array.splice() Answer: d
25. Array indexes start with (Easy)(Programming Fundamentals - JavaScript)



```
c. 1
d. Cannot say
Answer: b
26. Arrays always use numbered indexes. (Easy)(Programming Fundamentals - JavaScript)
a. Yes
b. No
c. Can be yes or no
d. Cannot say
Answer: a
27. What will happen, if the following JavaScript code is executed? (Medium)(Programming Fundamentals -
JavaScript)
   var count =0;
   while (count <10)
   {
      console.log(count);
      count++;
   }
a. An error is displayed
b. An exception is thrown
c. The values of count variable are logged or stored in a particular location or storage
d. The value of count from 0 to 9 is displayed in the console
Answer: d
28. Which of the following is the correct output for the following JavaScript code: (Medium)(Programming
Fundamentals - JavaScript)
   var x=3;
   var y=2;
   var z=0;
   if(x==y)
   document.write(x);
   elseif(x==y)
   document.write(x);
   else
   document.write(z);
a. 3
b. 0
c. Error
d. 2
Answer: b
```

29. n JavaScript the x===y statement implies that: (Easy)(Programming Fundamentals - JavaScript)

a. Both x and y are equal in value, type and reference address as well.



- b. Both are x and y are equal in value only.
- c. Both are equal in the value and data type.
- d. Both are not same at all.

Answer: c

30. Variable declared without a value will have the value _____(Easy)(Programming Fundamentals - JavaScript)

- a. undefined
- b. 0
- c. Null
- d. None of these

Answer: a



Round 2

Problem Statement 1

Given an integer n as input, you have to calculate the sum of all numbers from 1 to n using recursion

Constraint

• n >= 1

Input Format

• a integer n

Output Format

• Print the output

Sample Input 1

7

Sample Output 1

3

Explanation of Sample 1

1 + 2 = 3

Sample Input 2

л

Sample Output 2

10

Explanation of Sample 2

1+2+3+4 = 10

Sample Input 3

10

Sample Output 3

55

}

Explanation of Sample 3

1+2+3+4+5+6+7+8+9+10= 55

Template:

```
let n = parseInt(readline());
  console.log(sum(n));
function sum(n){
```



Solution:

https://ideone.com/I4HZBs

nX+Y=z

n=(z-y)/x

Problem Statement 2

You are given that a mango weighs X kilograms and a truck weighs Y kilograms. You want to cross a bridge that can withstand a weight of Z kilograms.

Find the maximum number of mangoes you can load in the truck so that you can cross the bridge safely.

Input Format

- * First line will contain T, the number of test cases. Then the test cases follow.
- * Each test case consists of a single line of input, three integers X,Y,Z the weight of mango, the weight of truck and the weight the bridge can withstand respectively.

Output Format

For each test case, output in a single line the **maximum** number of mangoes that you can load in the truck.

Constraints

- * 1≤T≤1000
- * 1<X<Y<Z<100

Sample Input 1

4

2 5 11

4 10 20

111

6 40 90

Sample Output 1

3

2

0

8

Explanation

Test case 1

You can load 3 mangoes at maximum. The total weight is $3\times2+5=11\le11$. Thus, the truck can safely cross the bridge with 3 mangoes. If you load 4 mangoes, the total weight is $4\times2+5=13>11$.

Test case 2

You can load 2 mangoes at maximum. The total weight is 2×4+10=18≤20. Thus, the truck can safely cross the bridge with 2 mangoes.



Test case 3

You can load 0 mangoes at maximum. The total weight is $0\times1+1=1\le1$. Thus, the truck can safely cross the bridge only if there are 0 mangoes.

Test case 4

You can load 8 mangoes at maximum. The total weight is 6×8+40=88≤90. Thus, the truck can safely cross the bridge with 8 mangoes.

Template:

```
let t = readline();
    while(t--){
        let arr = [];
        arr = readline().split(" ");

let x = arr[0];
        let y = arr[1];
        let z = arr[2];

// write your logic here
    }
```

Solution:

https://www.ideone.com/l3tujK



Round 3

Create a character count App. In this user will the enter the string in the textbox and on the button click to find the number of characters in the string

Round 4

Check whether the string entered is palindrome or Not(Since Javascript is a case sensitive language use lowercase letters only)



Template for round 3 and round4:

https://jsfiddle.net/yp071q2b/2/

Solution for Round 3 and Round4:

https://jsfiddle.net/mfcbhku3/1/