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1. What is lvalue Error and Write an example program that generates
lvalue Error?
2. Write The Output Of The Given Following Snippet (Pseudocode)
int main()
char v = 'a';
printf("V = %c, V = %d\n", v, v);
v = v * 2;
            printf("V = %c , V = %d\n", v, v);
}
3. Write A Program Subtracting of Two Numbers by Using Bitwise
Operations?
4. Write a program to find the number of set bits present in the given
number?
Ex: Input = 12
       Ouput = 2
5. Write A Program To Find The Size Of The integer without using sizeof
operator ?
6. Write the output of the following snippet ( Pseudocode) and Why?
#include <stdio.h>
void func(int , int);
int main() {
    int num = 12, num1=23;
    int ret = func(num, num1);
    printf("Ret = %d\n", ret);
}
void func(int a , int b)
    return a+b;
7. What is the output of following snippet?
  #include <stdio.h>
int main() {
    int a = 10, b = 20;
    int *p1 = &a, *p2 = &b;
    *p1 = ++*p2++;
    printf("A = %d B = %d\n", a, b);
    return 0;
}
8. Write the output of the following snippet?
#include <stdio.h>
int main() {
```

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const int x = 10;
    int *p = (int*)&x;
    *p = 20;
      x = 30;
    printf("%d\n", x);
    return 0;
}
9. Write a program convert string to integer without using predefined
functions?
         Input = "123" Output = 123
10. Write a program swapping of two variables using pointers and without
using third pointer
variable?
Write A Program To Swap the given two strings?
Input:
  char *str = "Hyderabad"
  char *str1 = "Bangalore"
Output:
  Str = "Bangalore"
  Str1 = "Hydreabad"
11. Write a program to find the second large and first large elements in
a array without sorting of an array?
Input:
  int arr[]=\{23,12,11,6,32,21,9,45\};
Output:
   First Large = 45;
   Second Large = 32;
12. Write a program to find the missing odd number in a sequenced array?
Input:
   int arr[] = \{3,5,9,13,15\};
Output:
   Missing Nums = 7,11
13. Write A Program To Find The Binary Of a Given Decimal Number Using
Bitwise Operations?
Input : num = 13.4
Output: 0100000101010110011001100110
14. Write a program of adding, subtracting, multiplying, dividing of
three numbers using function pointers?
15. Write a C program that takes a string as input and converts all
uppercase letters in the string to lowercase
and all lowercase letters to uppercase.
Input:
  Enter a string: "VivEn EmBeDded ACadeMy";
```

Output:

Output = "vIVeN eMbEdDED acADEmY";

16. Write a program/function removing of a node at a given position in a single linked list?

Input: 
$$2 - - - 3 - - 3 - - 7 - - 5 - - - 9$$
  
Enter the Pos = 2

Output:  $2 - - - 3 - - - 5 - - - 9$ 

- 17. Write A Program to Detect the Cycle into a single linked list and Remove the cycle?
- 18. Write a function/program to check if a singly linked list is a palindrome or not?

Not Palindrome

19. Write a program add the node in the middle of the single linked list?

Input:  

$$1 - - - \rightarrow 2 - - - \rightarrow 3 - - - \rightarrow 4 - - \rightarrow 5$$
  
Node = 6  
Output:  
 $1 - - \rightarrow 2 - - - \rightarrow 3 - - \rightarrow 6 - - \rightarrow 4 - - \rightarrow 5$ 

20. What are the types of pointers and write a example program for each pointer type?