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| **Good C++ Interview questions** |

1. **TSome good C++ questions to ask a job applicant**.
   1. How do you decide which integer type to use?
   2. What should the 64-bit integer type on new, 64-bit machines be?
   3. What’s the best way to declare and define global variables?
   4. What does extern mean in a function declaration?
   5. What’s the auto keyword good for?
   6. I can’t seem to define a linked list node which contains a pointer to itself.
   7. How do I declare an array of N pointers to functions returning pointers to functions returning pointers   
      to characters?
   8. ow can I declare a function that returns a pointer to a function of its own type?
   9. My compiler is complaining about an invalid redeclaration of a function, but I only define it once and call it once. What’s happening?
   10. What can I safely assume about the initial values of variables which are not explicitly initialized?
   11. Why can’t I initialize a local array with a string?
   12. What is the difference between char a[] = “string"; and char \*p = “string"; ?
   13. How do I initialize a pointer to a function.

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| **C interview questions part1** |

1. **What will print out?**

main()   
{   
        char \*p1=“name”;   
        char \*p2;   
        p2=(char\*)malloc(20);   
        memset (p2, 0, 20);   
        while(\*p2++ = \*p1++);   
        printf(“%sn”,p2);

}

**Answer**:empty string.

1. **What will be printed as the result of the operation below:**

main()   
{   
    int x=20,y=35;   
    x=y++ + x++;   
    y= ++y + ++x;   
    printf(“%d%dn”,x,y);

}

**Answer** : 5794

1. **What will be printed as the result of the operation below:**

main()   
{   
    int x=5;   
    printf(“%d,%d,%dn”,x,x< <2,x>>2);

}

**Answer:** 5,20,1

1. **What will be printed as the result of the operation below:**

#define swap(a,b) a=a+b;b=a-b;a=a-b;

void main()  
{   
    int x=5, y=10;   
    swap (x,y);   
    printf(“%d %dn”,x,y);   
    swap2(x,y);   
    printf(“%d %dn”,x,y);   
}

int swap2(int a, int b)   
{   
    int temp;   
    temp=a;   
    b=a;   
    a=temp;   
    return 0;

}

**Answer**: 10, 5  
10, 5

1. **What will be printed as the result of the operation below:**

main()  
{   
    char \*ptr = ” Cisco Systems”;   
    \*ptr++; printf(“%sn”,ptr);   
    ptr++;   
    printf(“%sn”,ptr);

}

**Answer:**Cisco Systems  
isco systems

1. **What will be printed as the result of the operation below:**

main()  
{   
    char s1[]=“Cisco”;   
    char s2[]= “systems”;   
    printf(“%s”,s1);   
}

**Answer**: Cisco

1. **What will be printed as the result of the operation below:**

main()  
{   
    char \*p1;   
    char \*p2;

    p1=(char \*)malloc(25);   
    p2=(char \*)malloc(25);

    strcpy(p1,”Cisco”);   
    strcpy(p2,“systems”);   
    strcat(p1,p2);

    printf(“%s”,p1);

}

**Answer**: Ciscosystems

1. **The following variable is available in file1.c, who can access it?:**
2. static int average;

**Answer**: all the functions in the file1.c can access the variable.

1. **WHat will be the result of the following code?**

#define TRUE 0 // some code

while(TRUE)   
{

    // some code

}

**Answer:** This will not go into the loop as TRUE is defined as 0.

1. **What will be printed as the result of the operation below:**

int x;   
int modifyvalue()   
{   
    return(x+=10);   
}

int changevalue(int x)   
{   
    return(x+=1);   
}

void main()  
{   
    int x=10;   
    x++;   
    changevalue(x);   
    x++;   
    modifyvalue();   
    printf("First output:%dn",x);

    x++;   
    changevalue(x);   
    printf("Second output:%dn",x);   
    modifyvalue();   
    printf("Third output:%dn",x);

}

**Answer**: 12 , 13 , 13

1. **What will be printed as the result of the operation below:**

main()  
{   
    int x=10, y=15;   
    x = x++;   
    y = ++y;   
    printf(“%d %dn”,x,y);

}

**Answer**: 11, 16

1. **What will be printed as the result of the operation below:**

main()  
{   
    int a=0;   
    if(a==0)   
        printf(“Cisco Systemsn”);   
        printf(“Cisco Systemsn”);

}

**Answer**: Two lines with “Cisco Systems” will be printed.