

# CODE WAR 2k17

## Qualifiers Round

Language : C language

Time: 15 min

Marks: +2 for correct

Name:

email:

-1 for Incorrect

\*Tick the right answer for the objective questions. Write the code snippet only, wherever asked not the entire code.

Q1. void fun( int \*p)  
{  
    int q=10;  
    p=&q;  
}  
  
int main()  
{  
    int r=20; int \*p=&r;  
    fun(p);  
    printf("%d",\*p);  
    return 0;  
}

For the given code find the output of the program?

- A. 10
- B. 20
- C. Compiler Error
- D. Runtime Error

Q2. int main()  
{  
    int arr[5];  
    printf("%u %u", arr+1, &arr+1);  
    return 0;  
}

The program would print (addresses are not actual values rather theoretical)?

- A. 2004 2004
- B. 2004 2020
- C. 2004 2008
- D. Yields error since arrays can't be referred using address of Operator.

Q3. void print(int arr[])  
{  
    int n=sizeof(arr)/sizeof(arr[0]);  
    int i=0;  
    for(;i<n;i++)  
    {  
        printf("%d", arr[i]);  
    }  
}  
  
int main()  
{  
    int ar[]={1,2,3};  
    print(ar);  
    return 0;  
}

The programme prints?

- A. 123
- B. Compile Error
- C. Runtime error
- D. 1

Q4. int main()  
{  
    int i,j;  
    char a[2][3]={{ 'a','b','c'},{ 'd','e','f' }};  
    char b[3][2];  
    char \*p=\*b;  
    for(i=0;i<2;i++)  
    {

What should be the content of the array b?

- A. a b
- c d
- e f

```

        for(j=0;i<3;j++)
        {
            *(p+2*j+i)= a[i][j];
        }
    }
}

```

- B. a d  
 b e  
 c f  
 C. a c  
 e b  
 d f  
 D. a e  
 d c  
 b f

<p>Q5. <code>int *a()</code>  <code>{ int x= 10;</code>  <code>return (&amp;x);</code>  <code>}</code></p>	<p><code>int *b()</code>  <code>{ int *px;</code>  <code>px=10;</code>  <code>return (&amp;px);</code>  <code>}</code></p>	<p><code>int *c()</code>  <code>{ int *px;</code>  <code>px= (int *)malloc(sizeof(int));</code>  <code>px=10;</code>  <code>return (&amp;px);</code>  <code>}</code></p>
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Which one of the above three functions are likely to cause problems with pointers?

- A. Only a  
 B. Only a and c  
 C. Only b and a  
 D. Only c

Q6. . Output of following program?

```

#include <stdio.h>
int main()
{
    static int i=5;
    if(--i){
        main();
        printf("%d ",i);
    }
}

```

- A. 4 3 2 1  
 B. 1 2 3 4  
 C. 0 0 0 0  
 D. Runtime error due  
 stack overflow

Q7. `int arr[4]= {1 , 2 ,3, 4} , t=0;`  
`int size= sizeof( arr) / sizeof(int);`  
`for(int i=0;i<=size/2;i++)`  
`{`  
 `t=arr[i];`  
 `arr[i] = arr[size - i -1]`  
 `arr[size -i -1] = t;`  
`}`

What will be the final state of the array ? If you believe there is something wrong with the code then fix it .  
 (write the single line code snippet for fixing the error)

Q8. In the context of the following printf() in C, pick the best statement.

- |   |  |
|---|--|
| <p>                         ➔ 1. <code>printf("%d",8);</code><br/>                         ➔ 2. <code>printf("%d",090);</code><br/>                         ➔ 3. <code>printf("%d",00200);</code><br/>                         ➔ 4. <code>printf("%d",0007000);</code> </p> | <p>                         A. Only 1. would compile and will print 8<br/>                         B. Both 1. and 2. Would compile and print 8 and 90<br/>                         C. All 1. 2. 3. And 4. Would compile successfully<br/>                         D. 2. wont compile successfully .                     </p> |
|---|--|

Q9. `#include <stdio.h>`  
`#define PRINT(i, limit) do \`  
`{ \`  
`if (i++ < limit) \`  
`{ \`  
`printf("GeeksQuiz\n"); \`  
`continue; \`  
`} \`  
`}while(1)`

`int main()`  
`{`  
`PRINT(0, 3);`  
`return 0;`  
`}`

In the given Code how many times "GeeksQuiz" will be printed?

- A. 1
- B. 3
- C. 4
- D. Compile time error

Q10. `int main()`  
`{`  
`int i=5;`  
`printf("%d %d %d",i++,i++,i++);`  
`return 0;`  
`}`

So it will show what

- A. 7 6 3
- B. 5 6 7
- C. 7 7 7
- D. Cant Say? \_\_\_\_\_

Specify Reason.....

Q11. `#include<stdio.h>`  
`int main()`  
`{`  
`printf("%d",main);`  
`return 0;`  
`}`

What will this code result in?

- A. Compilation error
- B. Runtime error
- C. Garbage Value
- D. print an address of \_\_\_\_\_. (write if this option)

Q12. `void the_duh_function( int s , ...)`  
`{`  
`printf("%d",s);`  
`}`  
`int main()`  
`{`  
`the_duh_function(3,45,67);`  
`return 0;`  
`}`

What will be the output?

- A. 34567
- B. Runtime error
- C. Compile time error
- D. 3

Q13. Write one line of code to find whether a number is even or odd. The catch is not to use modulus. Operator. (\*\* Bonus mark here)

`int num=3;`

////////here goes your code////////

Q14.   void main()  
       {  
           int i=10;  
           static int x=i;  
           if(x==i)  
           printf("Equal");  
           else if(x>i)  
           printf("Greater than");  
           else  
           printf("Less than");  
       } ////  
       ///// AND THE OUTPUT OF THE PROGRAM IS ?  
       A. Equal  
       B. Greater than  
       C. Less than  
       D. Compilation error

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Q15. Look at the algorithm given:

```
int number=234;
int t=number,reversenum=0;
while(t!=0)
{
    reversenum=reversenum*10+t/10;
    t%=10;
}
```

What will be the state of reversenum after this . Is it the right output?  
 if not suggest the fix

