

C Quiz 4 Q&A (18/11/2023)

1. what will be the output of this code?

```
#include <stdio.h>
int main()
{
    int i,x=10;
    i=abc(++x);
    printf("%d",--i);
    return 0;
}
```

```
int abc(int i)
{
    return(i++);
}
```

Answers

1. 10
2. 9
3. 11
4. none of the above

2. #include <stdio.h>

```
int a, b, c = 0;
void prtFun (void);
int main ()
{
    static int a = 1; /* line 1 */
    prtFun();
    a += 1;
    prtFun();
    printf ( "n %d %d " , a, b) ;
}
```

```
void prtFun (void)
{
    static int a = 2; /* line 2 */
    int b = 1;
    a += ++b;
    printf ( " n %d %d " , a, b);
}
```

Answers

1. 3 14 14 2
2. 4 26 16 1
3. 4 26 22 0
4. 3 15 25 2

3. What will it print?

```
#include<stdio.h>
int doSomething(int a, int b)
{
    if (b==1)
        return a;
    else
        return a + doSomething(a,b-1);
}

int main()
{
    int a = doSomething(2,3);
    printf("%d",a);
}
```

Answers

1. 2
2. 8
3. 6
4. 0

4. what will be the output of this code?

```
#include <stdio.h>

int recur(int);

int main()
{
    int no=-5;
    recur(no);
    return 0;
}

int recur(int no)
{
    if(no == 0 )
        return 0;

    else
        printf("%d,", no);

    return recur (++no);
}
```

Answers

1. -5 -4 -3 -2 -1
2. 4 3 2 1 0
3. infinite loop
4. run time error (exit value other than 0)

5. #include<stdio.h>
void myshow(int);

```
int main()
{
    int a=10;
    printf("%d ", a);
    myshow(a);
    printf("%d", a);
}
```

```
void myshow(int k)
{
    k=20;
}
```

Answers

1. 20 10
2. 20 20
3. 10 20
4. 10 10

6. what will be the output of this code?

```
#include<stdio.h>
```

```
int sum_mul(int x, int y)
{
    int p,q;
    p = x + y;

    q = x * y;

    return (p++,q++);
}
```

```
int main()
{
    int x,y,z;
    x=10;
    y=20;

    z = sum_mul(x,y);

    printf("\n result = %d\n",z);
    return 0;
}
```

Answers

1. 30
2. 201
3. 200
4. 31

7. which of the following is correct statement?

- a)register int i = 10;
int* a = &i;
- b)int i = 10;
register int* a = &i;
- c)int i = 10;
register static int* a = &i;
- d)#include <stdio.h>
register int x = 10;
int main()
{
register int i = 10;
return 0;
}

Answers

- 1. a & c
- 2. b only
- 3. c & d
- 4. a & d

8. what is the output of this code?

```
#include<stdio.h>
```

```
int fun(int n)
{
    static int i = 3;
    if (n >= 5)
        return n;

    n = n+i;
    i++;

return fun(n);
}
```

```
int main(void)
{
int ret=fun(3);
printf("%d",ret);
return 0;
}
```

Answers

- 1. 1
- 2. 2
- 3. 6
- 4. 7

9. What will be the output of the following code?

```
#include< stdio.h>

int main()
{
extern int a;
auto char j = 'E';
printf("%c %d", ++j, ++a);
return 0;
}
int a;
```

Answers

1. F 2
2. F 1
3. F Garbage
4. F 0

10. what will be the output of the code?

```
#include<stdio.h>

int func_test(int x, int y)
{

    static int p;
    p = x;
    p++;

    return (p,y);
}

int main()
{
    int z;

    z = func_test(10,20);

    printf("\n result = %d\n",z);
    return 0;
}
```

Answers

1. 10
2. 20
3. 11
4. compile time error.

-----Compiled by Utkarsh Singh -----

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