1.
```
#include <stdio.h>
int num;
int function(int n)
{
    int num = 10;
    return num;
}
int main(void)
{
    printf("%d %d\n", num, function(20));
    return 0;
}
```

A. 10 0
B. 20 0
C. 0 10
D. 0 20

Answer: C

2.
```
#include <stdio.h>
int main(void)
{
    static int val = 8;
    if(val--) main();
    printf("%d ", val);
    return 0;
}
```

A. -1 -1 -1 -1 -1 -1 -1 -1 -1
B. 0 0 0 0 0 0 0 0 0
C. -1 -1 -1 -1 -1 -1 -1 -1 -1 ...
D. 0 0 0 0 0 0 0 0 0 ...

Answer: A

3.
```
#include <stdio.h>
int n2 = 11, n1 = 12;
int test(int n1, int n2)
{
    int r1, r2, r3;
    r1 = n1 + n2; r3 = n1 - n2; r2 = n1 * n2;
    return r1, r2, r3;
}
int main(void)
{
    int n1 = 11, n2 = 12;
    printf(" %d ",  test(printf("Sunbeam Pune"),
                         printf("Sunbeam Karad")));
    printf("%d %d\n", n1, n2);
    return 0;
}
```

A. Sunbeam KaradSunbeam Pune -1 11 12
B. Sunbeam Karad Sunbeam Pune -1 11 12
C. Sunbeam KaradSunbeam Pune 23 11 12
D. Sunbeam Karad Sunbeam Pune 23 11 12

Answer: A

4.
```
#include <stdio.h>
int main(void)
{
    register char reg = 20;
    char *ptr_reg = NULL;

    ptr_reg = &reg;
    *ptr_reg = 40;

    printf("%d ", reg);
    return 0;
}
```

A. 20
B. 40
C. Compile time error
D. Run time error
Answer: C

5.
```
#include <stdio.h>
int var = 1;
int main(void)
{
    auto int var, var1;  var = init();
    for(var1 = 1 ; var1 <= 3 ; var1++)
    {
        printf("%d ", first(var));
        printf("%d ", last(var));
    }
    return 0;
}
int init(void)
{
    return (var);
}
int first(int var)
{
    return var = var++;
}
int last(int var1)
{
    static int var = 5;
    return var1 = var--;
}
```
A. 1 5 1 4 1 3
B. 1 5 1 5 1 5
C. 1 5 2 5 3 5
D. 1 5 2 4 3 3

Answer: A

6.

```
#include <stdio.h>
static char char1 = 'A';
extern char char2 = 'B';
register char char3 = 'C';
void mystorage(void)
{
     printf("%c %c %c\n", char1, char2, char3);
}
int main(void)
{
     printf("%c %c %c\n", char1, char2, char3);
     mystorage();
     return 0;
}
```

A. A B C
   A B C

B. Compile time error -
   static variable can not be declared globally

C. Compile time error -
   extern variable can not be declared globally

D. Compile time error -
   register variable can not be declared globally

Answer: D

7.

```
#include <stdio.h>
int demo(char p1, char p2)
{
    char p3;
    p3 = ~p1 + ~p2;
    return p3;
}
```

```
int main(void)
{
    char p1 = 255, p2 = 256;

    char p3 = demo(~p1++, ~p2--);
    printf("%d %d %d\n", p1, p2, p3);

    return 0;
}
```

A. -1 -1 0
B. -1 0 -1
C. 0 -1 -1
D. None of the above

Answer: C

8.

```
#include <stdio.h>
int rec(int);
int main(void)
{
    static int val = 8;
    printf("%d ", rec(val));
    return 0;
}
int rec(int val)
{
    static int sal = 10;
    if(val)
            return sal + rec(val--);
}
```

A. 80
B. Compile time error
C. Runtime time error(exit status -1)
D. None of the above

Answer: C

9.
```c
#include <stdio.h>
int i = 0;
int main(void)
{
    auto int i = 1;
    printf("%d ", i);
    {
        int i = 2;
        printf("%d ", i);
        {
            i += 1;
            printf("%d ", i);
        }
        printf("%d ", i);
    }
    printf("%d ", i);
    return 0;
}
```

A. 0 1 2 2 0
B. 1 2 3 2 1
C. 1 2 3 3 1
D. 0 1 2 1 0

Answer: C

10.
```c
#include <stdio.h>
int rec(int);
int main(void)
{
    int num =3;
    printf("%d\n", rec(num));

    return 0;
}
```

```
int rec(int n)
{
    if(n < 1)
            return n + 1;
    return n + rec(n-1) + rec(n-2);
}
```

A. 5
B. 11
C. 10
D. 9
Answer: C

11.

```
#include <stdio.h>
int my = 0;
int myset(int my)
{
    printf("%d ", my++);
    return my = my <= 2 ? 5 : 0;
}
int main(void)
{
    int my = 5;

    myset( my/2 );      printf("%d ", my);
    myset( my=my/2 );   printf("%d ", my);
    my = myset( my/2 ); printf("%d ", my);

    return 0;
}
```

A. 3 5 3 2 2 5
B. 2 5 2 2 1 5
C. 2 3 2 2 2 5
D. 3 3 3 2 1 5

Answer: B

12.
```c
#include <stdio.h>
int ext = 30;
int main(void)
{
    extern int ext;
    printf("Ext = %d ", ext);
    extfun();
     return 0;
}
int ext = 10;
int extfun(void)
{
    int ext = 20;
    printf("%d\n",ext);
}
```
A. Ext = 10 20
B. Ext = 30 20
C. Compile time error
D. Run time error
Answer: C

13.
```c
#include <stdio.h>
int no1 = 17, no2 = 71;
void swapping(void)
{
    int temp = no2; no2 = no1; no1 = temp;
    return ;
}
int main(void)
{
    int no1 = 17, no2 = 71;
    printf("%d %d ", no1 , no2);
    swapping();
    printf("%d %d\n", no1, no2);
    return 0;
}
```

A. 17 17 17 17
B. 17 71 17 71
C. 71 17 71 17
D. 71 71 71 71

Answer: B

14.

```
#include <stdio.h>
int testDemo(int, int);
int main(void)
{
    int you = 64, me = 32;

    int we = testDemo(you, me);
    printf("%d %d %d\n", me, you, we);
    return 0;
}
int testDemo(int me, int you)
{
    me = me + you;
    return me - you;
    you = you - me;
    return me + you;
}
```

A. 32 64 32
B. 64 64 32
C. 64 32 64
D. 32 64 64

Answer: D

15.

```
#include <stdio.h>
int num = 7;
int function(void)
{
    static int num = 9;

    printf("%d ", num); num -=2;
    return num;
}
int main(void)
{
    while(function() >= 0);

    return 0;
}
```

A. 9 9 9 9 9
B. 9 7 5 3 1
C. 7 7 7 7 7
D. 7 5 3 1

Answer: B

16.

```
#include <stdio.h>
int function(int arg)
{
    static int num = 6;
    if(num <= 1)
            return num;
    return arg + function(arg -= num--);
}
int main(void)
{
    printf("return = %d\n", function(16));
    return 0;
}
```

A. 29
B. 25
C. 11
D. None of the above

Answer: C