| 1 | ```cpp
void fun(const int* ptr, const int N){
        for(int i=0; i<N; i++, ptr++) {
                *ptr = 5;
                cout << *ptr;
        }
}

int main(){
        int arr[4] = {1,2,3,4};
        fun(arr, 4);
        return 0;
}
``` | |
|---|---|---|
| 2 | ```cpp
char *findChar(char *str) {
        char *ptr = str;
        while (*ptr != 's')
                ptr++;
        return ptr;
}

int main(){
        cout << findChar("mystring");
        return 0;
}
``` | |
| 3 | ```cpp
char *findChar(char *str) {
        char *ptr = str;
        while (*ptr != 's')
                ptr++;
        return ptr;
}

int main(){
        cout << *findChar("mystring");
        return 0;
}
``` | |
| 4 | ```cpp
void print(const char* p){
        for(int i = 0; i < strlen(p);){
                cout<<p<<endl;
                p++;
        }
}
int main(){
        char p[] ={'1','2','3','\0'};
        print(p);
        return 0;
}
``` | |
| 5 | ```cpp
void fun3(int&a){
        a++;
    cout<<a;
}
void fun2(int &a){
    fun3(++a);
    cout<<a;
``` | |

| | ```cpp
}
void fun1(int &a){
    fun2(++a);
    cout<<a;
}
int a=5;
int main(){
    int a = 1;
    fun1(a);
    cout<<a;
    return 0;
}
``` | |
| 6 | ```cpp
int g_One=1;
void func(int* pInt){
    pInt=&g_One;
}
void func2(int*& rpInt){
    rpInt=&g_One;
}
int main(){
    int nvar=2;
    int* pvar=&nvar;
    func(pvar);
    cout<<*pvar<<endl;
    func2(pvar);
    cout<<*pvar<<endl;
    return 0;
}
``` | |
| 7 | ```cpp
int main(){
    char sstring[] = {'g', 'n', 'o', 'r',
'w','\0'};
    char* chp = sstring;
    chp += 4;
    for(int i=0;i<5;i++){
      cout <<*(chp-i);
      }
    return 0;
}
``` | |
| 8 | ```cpp
int main(){
    int data = 10;        //address 200
    int * const what;     //address 300
      cout<<what<<"\t"<<*what<<"\\"<<&what;

      return 0;
}
``` | |
| 9 | | |

| | ```
int main(){
    int array[] = {1,2,3,4,5};
    int *p = array;
    cout<<(p++ == array+1);
    return 0;
}
``` | |
| 10 | ```
int main(){
    const int x = 10;
    int *q = &x;
    int *const_ptr = q;
    cout << *const_ptr << endl;
      return 0;
}
``` | |
| 11 | ```
int main(){
  int arr[5]={1,5,9,11,15,19};
  int i;
  for(i=0;i<5;i++)
      cout<<arr[i]/4*arr[i]/2<<"\t";
  return 0;
}
``` | |
| 12 | ```
int main(){
   int list[10]={21,12,13,3,55,16};
   int i;
   for(i=0;i<5;i++)
   {
      int temp=list[i];
      list[i]=list[9-i];
      list[9-i]=temp;
   }
   for(i=0;i<10;i++)
      cout<<list[i]<<"\t";
      return 0;

}
``` | |
| 13 | ```
int main()
{
    int i,j,Matrix[4][4]={1, 3, 6,2,5, 9,1,
7,8 , 4, 5 ,3,4,5,6,9};

    for(i=0,j=N-1 ; i<N ; i++,j--)
    {
        if (Matrix[i][j]%4==0)
``` | |

```cpp
            cout<<Matrix[i][j]+1<<"   ";
        cout<<Matrix[i][j]-1<<"   ";
    }
    return 0;
}
```

14	`int main()`
	`{`
	`    int i,j,Matrix[3][3]={1,2,3,4,5,6,7,8,9};`
	`    for(int i=0;i<3;i++)`
	`    {`
	`        for(int j=0;j<3;j++)`
	`        {`
	`            if(i==j)`
	`                cout<<Matrix[i][j]<<" ";`
	`        }`
	`    }`
	`}`	

15	`int main(){`
	
	`  int i = 50,j = 1, x=0 ;`
	
	`  do{`
	`      i= ++j;`
	`      x++;`
	` }while(x<5);`
	
	`  cout<<i<<"   "<<j;`
	
	`}`	

16	`int main(){`
	
	`  for(int i=0;;){`
	`      i++;`
	`      cout<<i<<"   ";`
	`      if(i==3)`
	`          break;`
	`  }`
	
	`}`	

17	`int main(){`
	
	`    int something = 1;`
	`    for(int i = n ; i>=0; i--){`
	`        something = something * i;`
	
	`        if(i==2)`
	`            continue;`
	`        if(i<3)`
	`            break;`	

| | ```
    }
    cout<<something;
}
``` | |
| **18** | ```
int main()
{
    int i=0, j=1;
    while(i<5)
    {
        while(j<5){
            cout<<"* ";
            j++;
        }
        cout<<endl;
        i++; j=i;
    }
    return 0;
}
``` | |
| 19 | ```
int main()
{
    int i = 0, j=1, c=0;
    while(j - ++i) {
        c++;
    }
    cout<<"Executed "<<c<<" times\n";
    return 0;
}
``` | |
| 20 | ```
int main()
{
    switch(~(12|25))
    {
        case 0:
            cout<<"Programing ";
        case 1:
            cout<<"Fundamentals!";
            break;
        case -12:
        case 29:
            cout<<"is";
            break;
        case -29:
            cout<<"fun";
            break;
        default:
            cout<<"None of the case is true";
    }
    return 0;
}
``` | |
| 21 | ```
int calculation(int n) {
    if (n > 1) {
        return n * (n - 1);
    } else {
``` | |

```
            return 1;
        }
}

int main() {
    int n, result;

    n=5;

    result = calculation(n);
    cout << "result = " << result;
    return 0;
}
```

| 22 | ```
int main()
 {
        const int UPPER = 7, LOWER = 6;
        int num1, num2, num3 = 12, num4 = 3;


        num1 = num3 < num4 ? LOWER: UPPER;
        num2 = num4 > UPPER ? num3 : LOWER;


        cout << num1 << " " << num2 << endl;
        return 0;
 }
``` | |

| 23 | ```
int main()
{
    int limit = 10;
    cout<<((limit++) && (++limit - 12)) ;
}
``` | |

| 24 | ```
#include <iostream>
using namespace std;

int main()
{
``` | |

| | ```cpp
    int n=10;
    {
        n=20;
        break;
        n=30;
    }
    cout<<n;
    return 0;
}
``` | |
| 25 | ```cpp
#include <iostream>
using namespace std;

void test(int a);
int main(){

    test(10);
}

void test(int b){

    a = 20;
    b = 30;
    cout<<"a + b = "<< a * b;

}
``` | |
| 26 | ```cpp
#include <iostream>
using namespace std;


int do_something(int);

int main(){

    cout<<do_something(5);

}

int do_something(int n){

    int something = 1;
    for(int i = n ; i>=0; i--){
        something = something * i;

        if(i==2)
            continue;
        if(i<3)
            break;
    }
    cout<< something;
    exit(0);
    return 1;

}
``` | |

| 27 | ```cpp
#include <iostream>
using namespace std;

int main(){

    int a, b = 0;
    if(a=a+b)
        a = 2 * ++b + a++;
        switch(a){
            case 2:
                b = 2 * a;
            default:
                b = (true ? (a > 0 ? 10 : 20 ) :
30);
                break;
            case 0:
                b = (a > 0 ? 1 : 2 );
            case 3:
                b = a + 1;
                break;
        }
    cout<<a<<"  "<<b;
}
``` | |
|----|----|----|
| 28 | ```cpp
#include <iostream>
using namespace std;

int main(){
    int a = 2, b = 2, c =3, d =4;
    a = a > b ? b : c > d ? c : d;
    cout << a << endl;
}
``` | |
| 29 | ```cpp
#include <iostream>
using namespace std;

int main()
{
 int testVal = 0;
while (testVal++ < 10)
 {
 if (testVal == 4)
 continue;
 testVal = testVal+1;
 cout << testVal << " ";
 }
 return 0;
}
``` | |
| 30 | ```cpp
#include <iostream>
using namespace std;
int func (int);
int main()
{
 int x = 2, y = 3, z = 4;
 cout << "values of x, y, z before function
calls
 are : " << x << " , " << y << " , " << z<<endl;
``` | |

```
 int x_value = func (x);
 int y_value = func (y);
 int z_value = func (z);
 cout << "values of x, y, z after function calls
 are : " << x_value << " , " << y_value << " , "
 << z_value<<endl;
 return 0;
}
int func (int x = 6)
{
 int temp=1;
 for(int I = 1; I <= x; i++)
 temp *= I;
 x = temp;
 return x;
}
```

31
```
#include <iostream>
using namespace std;

int main()
{ int x = 9, y = 11;
if ( x < 10 );
    cout << "@@@" << endl;
if ( y > 10 )
if ( y> x );
    cout << "!!!" << endl;
if (x==y)
    cout << "***" << endl;
else
    cout << "###" << endl;
cout << "$$$" << endl;
 return 0;
}
```

32
```
int main(){

    double value = 92.8762;

    double *a, b;

    a = &value;
    b = a;
    cout<<*b;

return 0;

}
```