

Number 1

```
#include <iostream>
```

```
using namespace std;
```

```
int main(){
```

```
    const int SIZE= 20;
```

```
    int names[SIZE]={4, 7, 6, 8, 2,
```

```
                    3, 9, 8, 3, 6,
```

```
                    1, 7, 5, 4, 2,
```

```
                    7, 5, 7, 3, 1
```

```
};
```

```
for(int i=0; i<SIZE; i++){
```

```
    cout<<"names["<<i<<"]: "<<names[i]<<std::endl;
```

```
}
```

```
cout<<"-----\n";
```

```
for(int var : names){
```

```
    cout<<"Next Item: "<<var<<std::endl;
```

```
}
```

```
}
```

Number 2

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

int main()
{
    const int SIZE= 30;

    int numArray1[30] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25,
    26, 27, 28, 29, 30};
    int numArray2[30];

    for (int i= 0; i<SIZE; i++)
    {
        numArray1[i] = numArray2[i];
    }

    return 0;
}
```

Number 3

```
#include<iostream>
using namespace std;
int main()
{
    int size= 5;
    int range = 10;
    int user[size];
    int lottery[size];
    for(int i=0;i<size;i++)
    lottery[i]=rand()%range;
```

```
cout<<"Enter "<<size<<" digits:";
for(int i=0;i<size;i++)
cin>>user[i];
int match=0;
for(int i=0;i<size;i++)
if(user[i]==lottery[i])
match++;
cout<<"Lottery array: ";
for(int i=0;i<size;i++)
cout<<lottery[i]<<" ";
cout<<endl;
cout<<" User array: ";
for(int i=0;i<size;i++)
cout<<user[i]<<" ";
cout<<endl;
if(match==size)
{
cout<<"Congratulations. You are a grand prize winner! ";
}
else
{
cout<<"Number of digits matched: "<<match<<endl;
cout<<"Sorry! Better luck next time!";
}
}
```