

EXERCISE 3

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1)

```
#include <iostream>
```

```
using namespace std;
```

```
int main(){
```

```
int names[]={1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20};
```

```
for(int count=0;count<20;count++){
```

```
    cout <<"array"<<count+1<<": " <<names[count]<<endl;
```

```
}
```

```
return 0;
```

```
}
```

2)

```
include <iostream>
```

```
using namespace std;
```

```
int main(){
```

```
const int NUM=30;
```

```
int numArray1[NUM];
```

```
int numArray2[NUM];
```

```
cout <<"Enter 30 numbers for the first array: ";
```

```
for(int count=0;count<NUM;count++){
```

```
    cin>>numArray1[count];}
```

```
for(int count=0;count<NUM;count++){
```

```
    numArray2[count]=numArray1[count];
```

```
}
```

```
for(int count=0;count<NUM;count++){
```

```
    cout << numArray2[count]<<" ";
```

```
return 0;
```

```
}
```

3)

```
#include <iostream>
```

```
#include <cstdlib>
```

```
#include <ctime>
```

```
using namespace std;
```

```
int main(){
```

```
    const int NUM=5;
```

```
    int lottery[NUM];
```

```
    int user[NUM];
```

```
    int mdigit=0;
```

```
    srand(time(0));
```

```
    for(int count=0;count<NUM;count++){
```

```
        lottery[count]=rand()%10;
```

```
    }
```

```
    cout<<"Please enter 5 digits: ";
```

```
    for(int count=0;count<NUM;count++){
```

```
        cin>>user[count];
```

```
    }
```

```
    for(int count=0;count<NUM;count++){
```

```
        if(lottery[count]==user[count])
```

```
            mdigit++;}
```

```
    if(mdigit==NUM)
```

```
        cout<<"\nYou are a grand prize winner!!";
```

```
else{
    cout <<"lottery array: ";
    for(int count=0;count<NUM;count++){
        cout<<lottery[count]<<" ";
        cout<<"\ndigits match: "<<mdigit;}

    return 0;

}
```