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## Lab 6

### Part A:

#1.

- a. Declare void function FindMin (a[], int size);
- b. Create for loop with int i that goes to the size of the array and increments i
- c. If the declared min=a[0] is less than a[i], assign a[i] as the new min
- d. Inside the main, declare int Min=a[0]; and int size
- e. Input the size
- f. Create a for loop that has the user input numbers until they hit the size they entered
- g. Call the function and the cout the Min

#2. C++ code

```
#include <iostream>
```

```
using namespace std;
```

```
double FindMin(double a[],int size){  
    double Min=a[0];  
    for (int i=0;i<size;i++){  
        if (a[i]<Min){  
            Min=a[i];  
        }  
    }  
    return Min;  
}
```

```
int main()  
{  
    double a[]={5,2,3,4,1};  
    int size=5;
```

```
    cout<<"Minimum value in array is: "<<FindMin(a,size)<<endl;
```

```
    return 0;  
}
```

#3.

- a. Declare and define bool isFact (int n) which is already given
- b. Declare and define function void factarr (int a[], bool fact [], int size)
- c. The function should call the other function bool fact inside a for loop
- d. Inside the main, declare your array with some factorials and some not factorials
- e. Declare int size
- f. Call factarr (a, fact, size)
- g. Create a for loop for outputting fact [i]

#4. C++ code

```
#include <iostream>
```

```
using namespace std;
```

```
bool isfact(int n){  
    bool is=false;  
    int fact=1;  
    for (int i=1;i<n+2;i++){  
        if (fact==n)  
            is=true;  
        fact=fact*i;  
    }  
    return is;  
}
```

```
void factarr(int a[], bool fact[], int size){  
    for(int i=0;i<size;i++){  
        fact[i]=isfact(a[i]);  
    }  
}
```

```
int main()  
{  
    int a[5]={120,24,15,6,3};  
    int size=5;  
    bool fact[5];
```

```
    factarr(a,fact,5);  
    for(int i=0;i<size;i++){
```

```

        cout<<"fact index : "<<i<<" is "<<fact[i]<<endl;
    }
    return 0;
}

```

## Part B:

```

#include <iostream>
#include <string>
#include <cstdlib>
#include <ctime>
using namespace std;

```

```

int main()
{
    string spanish[] = {"gato", "perro", "uno", "dos", "tres"};
    string english []= {"cat", "dog", "one", "two", "three"};
    int score[]={0,0,0,0,0};

    string input;
    string answer;
    srand(time(0));

    int correct = 0;
    while (correct<10){
        int index = rand()%5;
        if (score[index]<2){
            cout<<"What is the English of"<<spanish[index]<<endl;
            cin>>input;
            answer = input;
            if (answer == english[index]){
                correct=correct+1;
                score[index] = score[index]+1;
            }
        }
    }
}

```

```
        else{
            cout<<"The right answer is: "<<english[index]<<endl;
        }
    }
    return 0;
}
```



