

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int grades[20];
```

```
    float average = 0;
```

```
    int highest_grade = 0;
```

```
    int lowest_grade = 0;
```

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

```
        cout<<"enter grade "<<(i+1)<<" ": "
```

```
        cin>>grades[i] ;
```

```
        if (grades[i]>100 or grades[i]<0){
```

```
            cout <<"please enter a valid grade"<<"\n";
```

```
            i = i-1;
```

```
        }
```

```
    }
```

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

```
        average = average + grades[i];
```

```
    }
```

```
    cout<<"the average is "<< average/20<<"\n";
```

```
    highest_grade=grades[0];
```

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

```
        if(highest_grade < grades[i])
```

```
            highest_grade = grades[i];
```

```
    }
```

```
    cout <<"the highest grade is "<< highest_grade<<"\n";
```

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

```
        if(highest_grade > grades[i])
```

```
            highest_grade = grades[i];
```

```
    }
```

```
    cout <<"the lowest grade is "<< highest_grade;
```

```
}
```