

There are 26 students in the class. Write a console application that enables users to enter each student's name and his/her exam score and then displays the information. It also displays who has the highest score and how many students are above average.

```
C:\WINDOWS\system32\cmd.exe
Welcome to the Class Grade Sorter
Please enter the student's name followed by their exam score.
Name 1: Kevyn
Grade : 95
Name 2:
Please enter a name.
Name 2: Ka7ng
Please enter a name without a digit.
Name 2: Kaung
Grade :
Please enter a real number.
Name 2: Kaung
Grade : 500
Please input a score between 0 and 100
Name 2: Kaung
Grade : 35
Name 3: Hi
Grade : 33
Name 4: Hello
Grade : 99
Name 5: Dr Klein
Grade : 100
Name 6: student4
Please enter a name without a digit.
Name 6: student
Grade : 22
Name 7: hello
Grade : 49
Name 8: so
Grade : 55
Name 9: many
Grade : 21
Name 10: inputs
Grade : 31
Name 11: almost
Grade : 25
Name 12: halfway
Grade : 93
Name 13: there
Grade : 32
Name 14: hello
Grade : 36
Name 15: nice
Grade : 88
Name 16: blue
Grade : 74
Name 17: red
Grade : 13
Name 18: green
Grade : 39
Name 19: orange
Grade : 14
Name 20: brown
Grade : 42
Name 21: yellow
Grade : 45
Name 22: almost
Grade : 99
Name 23: done
Grade : 31
Name 24: finally
Grade : 42
Name 25: yes
```

```
C:\WINDOWS\system32\cmd.exe
Name 24: finally
Grade : 42
Name 25: yes
Grade : 77
Name 26: finally
Grade : 53

Here is your list:
Name:      Grade:
Kevyn      95
Kaung      35
Hi         33
Hello      99
Dr Klein   100
student    22
hello      49
so         55
many       21
inputs     31
almost     25
halfway    93
there      32
hello      36
nice       88
blue       74
red        13
green      39
orange     14
brown      42
yellow     45
almost     99
done       31
finally    42
yes        77
finally    53

Dr Klein had the highest score with a score of 100
The average score of the class is 51.6538461538462
10 student(s) are above the average
Press any key to continue . . .
```

```
namespace Homework_6__Class_Array
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Welcome to the Class Grade Sorter\nPlease enter the student's
name followed by their exam score.");
```

```

int classsize = 26;
string[] name = new string[classsize];
int[] grade = new int[classsize];
double averg;
double sum = 0;
int j = 0;
int big = 0;
int indexbig=0;

for (int i = 0; i < classsize; i++)
{
    Console.Write("Name {0}: ", i + 1);
    string inpN = Console.ReadLine();

    bool validEmpty = string.IsNullOrEmpty(inpN);
    bool validNoNum = inpN.Any(char.IsDigit);

    if (validEmpty)
    {
        Console.WriteLine("Please enter a name.");
        i--;
    }
    else if (validNoNum)
    {
        Console.WriteLine("Please enter a name without a digit.");
        i--;
    }
    else if (!validEmpty && !validNoNum)
    {
        name[i] = inpN;

        Console.Write("Grade : ");
        string inpG = Console.ReadLine();
        bool validEmptyG = string.IsNullOrEmpty(inpG);

        bool validNum = int.TryParse(inpG, out grade[i]);
        if (!validNum || validEmptyG)
        {
            Console.WriteLine("Please enter a real number.");
            i--;
        }
        if (grade[i]<0 || grade[i] > 100)
        {
            Console.WriteLine("Please input a score between 0 and 100");

```

```

        i--;
    }

}

}

for (int i = 0; i < classsize; i++)
{
    sum += grade[i];
}

averg = sum / grade.Length;

for (int i = 0; i < classsize; i++)
{
    if (grade[i] > averg)
    {
        j++;
    }
    if (grade[i] > big)
    {
        big = grade[i];
        indexbig = i;
    }
}

averg = Math.Round(averg, 2);

Console.WriteLine("\nHere is your list: ");
Console.WriteLine("Name:\t\tGrade:");

for (int i = 0; i < classsize; i++)
{
    Console.WriteLine(name[i] + "\t\t" + grade[i]);
}

Console.WriteLine("\n{0} had the highest score with a score of {1}", name[indexbig], big);
Console.WriteLine("The average score of the class is {0}", averg);
Console.WriteLine("{0} student(s) are above the average", j);

}

}

```