

LAB NUMBER: 32

Task: Use Linq to search the following collections.

Build Specifications:

Assume we have the following collections:

```
int[] nums = { 10, 2330, 112233, 10, 949, 3764, 2942 };
```

```
List<Student> students = new List<Student>();
    students.Add(new Student("Jimmy", 13));
    students.Add(new Student("Hannah Banana", 21));
    students.Add(new Student("Justin", 30));
    students.Add(new Student("Sarah", 53));
    students.Add(new Student("Hannibal", 15));
    students.Add(new Student("Phillip", 16));
    students.Add(new Student("Maria", 63));
    students.Add(new Student("Abe", 33));
    students.Add(new Student("Curtis", 10));
```

Answer the following questions:

For nums:

- 1) Find the Minimum value
- 2) Find the Maximum value
- 3) Find the Maximum value less than 10000
- 4) Find all the values between 10 and 100
- 5) Find all the Values between 100000 and 999999 inclusive
- 6) Count all the even numbers

For students:

- 1) Find all students age of 21 and over (aka US drinking age)
- 2) Find the oldest student
- 3) Find the youngest student
- 4) Find the oldest student under the age of 25
- 5) Find all students over 21 and with even ages
- 6) Find all teenage students (13 to 19 inclusive)
- 7) Find all students whose name starts with a vowel

