DAY - 1

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```
using System;
using System.Diagnostics;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace demo
{
    enum Brands
   {
      Dell,
      HP,
      Lenovo
   }
   struct Laptop
   {
      public string serial_num;
      public int price;
      public Brands brand;
      public Laptop(string _serial_num, int _price, Brands _brand)
      {
         serial_num = _serial_num;
         price = _price;
         brand = _brand;
      }
   }
   class Program
   {
      static int totalPrice(List<Laptop> laptops)
      {
         int sum = 0;
         foreach (var l in laptops)
         {
            sum += l.price;
         }
         return sum;
      }
```

```
        static void Main(string[] args)
        {
            Laptop l1 = new Laptop("12345", 50000, Brands.Dell);
            Debug.WriteLine("Laptop serial: "+l1.serial_num+" price:" +l1.price+" brand:"+ l1.brand);
            Laptop l2 = new Laptop("67890", 70000, Brands.HP);
            Debug.WriteLine("Laptop serial: " + l2.serial_num + " price:" + l2.price + " brand:" +
l2.brand);
            Laptop l3 = new Laptop ("99999", 60000,Brands.Lenovo);
            Debug.WriteLine("Laptop serial: " + l3.serial_num + " price:" + l3.price + " brand:" +
l3.brand);
            List<Laptop> alllap = new List<Laptop>();
            alllap.Add(l1);
            alllap.Add(l2);
            alllap.Add(l3);
            Debug.WriteLine("total price: "+ totalPrice(alllap));

            Func<List<Laptop>, int> count = list => list.Count;
            Debug.WriteLine("total count: " + count(alllap));

            var max = alllap.Max(v => v.price);
            Debug.WriteLine("Maximum price " + max);
            var min = alllap.Min(v => v.price);
            Debug.WriteLine("Minimum price " + min);
            var sum = alllap.Sum(v => v.price);
            Debug.WriteLine("sum of price " + sum);

        }
    }
}
```

Output:

```
Laptop serial: 12345 price:50000 brand:Dell
Laptop serial: 67890 price:70000 brand:HP
Laptop serial: 99999 price:60000 brand:Lenovo
total price: 180000
total count: 3
Maximum price 70000
Minimum price 50000
sum of price 180000
```