

DAY 1

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Code:

```
namespace OwnDemo
{
    public enum enumFoodType
    {
        Veg,
        NonVeg,
        Vegan
    }
    struct Food
    {
        public string foodName;
        public int price;
        public enumFoodType type;
        public Food(string _foodName, int _price, enumFoodType _type)
        {
            foodName = _foodName;
            price = _price;
            type = _type;
        }
    }
}
```

```
class Program
{
    static int totalFoodCost(List<Food> allFoods)
    {
        int total = 0;

        foreach (var f in allFoods)
        {
            total += f.price;
        }

        return total;
    }

    static void Main(string[] args)
    {
        Food f1 = new Food("Paneer Butter Masala", 200, enumFoodType.Veg);
        Food f2 = new Food("Chicken Biryani", 350, enumFoodType.NonVeg);
        Food f3 = new Food("Salad Bowl", 150, enumFoodType.Vegan);
        Food f4 = new Food("Dosa", 80, enumFoodType.Veg);

        List<Food> allFoods = new List<Food>();

        allFoods.Add(f1);
        allFoods.Add(f2);
        allFoods.Add(f3);
        allFoods.Add(f4);

        Console.WriteLine("Food_1 = " + f1.foodName + ":" + f1.price + ":" + f1.type);
    }
}
```

```
Console.WriteLine("Food_2 = " + f2.foodName + ":" + f2.price + ":" + f2.type);
```

```
Console.WriteLine("Food_3 = " + f3.foodName + ":" + f3.price + ":" + f3.type);
```

```
Console.WriteLine("Food_4 = " + f4.foodName + ":" + f4.price + ":" + f4.type);
```

```
Func<List<Food>, int> totCount = (List<Food> count_food) => count_food.Count;
```

```
Console.WriteLine("Total food items: " + totCount(allFoods));
```

```
var costlyFoods = allFoods.Where(a => a.price >= 200);
```

```
var maxPrice = allFoods.Max(a => a.price);
```

```
var minPrice = allFoods.Min(a => a.price);
```

```
var totalPrice = allFoods.Sum(a => a.price);
```

```
Console.WriteLine("\nMax Price: " + maxPrice);
```

```
Console.WriteLine("Min Price: " + minPrice);
```

```
Console.WriteLine("Total Price: " + totalPrice);
```

```
Console.WriteLine("\nFoods costing more than 200:");
```

```
foreach (var food in costlyFoods)
```

```
{
```

```
    Console.WriteLine(food.foodName + " : " + food.price + " (" + food.type + ")");
```

```
}
```

```
Console.WriteLine("\nTotal cost of all foods: " + totalFoodCost(allFoods));
```

```
}
```

```
}
```

```
}
```

Output:

Food_1 = Paneer Butter Masala:200:Veg

Food_2 = Chicken Biryani:350:NonVeg

Food_3 = Salad Bowl:150:Vegan

Food_4 = Dosa:80:Veg

Total food items: 4

Max Price: 350

Min Price: 80

Total Price: 780

Foods costing more than 200:

Paneer Butter Masala : 200 (Veg)

Chicken Biryani : 350 (NonVeg)

Total cost of all foods: 780