

```
using System;
using System.Collections.Generic;
using System.Linq;

namespace ECommerce
{
    public class ProductCatalog
    {
        private List<Product> products;

        public ProductCatalog()
        {
            products = new List<Product>();
        }

        public void AddProduct(Product product)
        {
            if (product == null)
                throw new ArgumentNullException(nameof(product));

            products.Add(product);
        }

        public Product FindProductById(int id)
        {
            return products.FirstOrDefault(p => p.Id == id);
        }

        public List<Product> GetAllProducts()
        {
            return new List<Product>(products);
        }

        public void RemoveProduct(int id)
        {
            var product = FindProductById(id);
            if (product != null)
            {
                products.Remove(product);
            }
        }
    }
}
```

```
public int GetProductCount()
{
    return products.Count;
}

public class Product
{
    public int Id { get; set; }
    public string Name { get; set; }
    public decimal Price { get; set; }
    public string Description { get; set; }

    public Product(int id, string name, decimal price, string description)
    {
        Id = id;
        Name = name;
        Price = price;
        Description = description;
    }
}
```