```
public enum CustomerType {
  NotRegistered = 1,
                                                           Solution
  Simple = 2,
  Silver = 3,
 Gold = 4
public static class Constants {
  public const int MAX_YEAR = 5;
  public static readonly Dictionary < Customer Type, double >
     priceRate = new Dictionary<CustomerType, double> {
       { CustomerType.Simple, 0.9},
       { CustomerType.Silver, 0.7},
       { CustomerType.Gold, 0.5}
    };
public class DiscountManager {
  public static double CalculateDiscountedPrice(double price,
                       CustomerType type, int years=0) {
    if (type != CustomerType.NotRegistered) {
      double loyaltyDiscountPercent = (years > Constants.MAX_YEAR)?
                       Constants.MAX_YEAR / 100.0 : years / 100.0;
      return Constants.priceRate[type] * price *
                                      (1 - lovaltyDiscountPercent);
    return price;
  24
                                                   23/11/61
```