



```
public interface ITrackingKey
{
    static virtual KeyComparer Comparer => new ();

    public class KeyComparer : IEqualityComparer<ITrackingKey>
    {
        public bool Equals(ITrackingKey x, ITrackingKey y)
        {
            // using nullable bool to avoid extra null checks
            // and = true comparison as soon as nullable bool
            // has 3 values: true, false, null
            return x?.String?.Equals(y?.String, StringComparison.Ordinal) == true;
        }

        public int GetHashCode(ITrackingKey obj)
        {
            // avoid null check for simplicity
            return obj.String.GetHashCode();
        }
    }

    string String { get; }
}
```



```
// Later in code
```

```
private HashSet<ITrackingKey> trackedItems =  
    new HashSet<ITrackingKey>(ITrackingKey.Comparer;
```