

# Partitioning Lab Answers

## Lab 1: Skip() Method (Query Syntax)

```
list = (from row in songs
        orderby row.SongName
        select row).Skip(1000).ToList();
```

## Lab 1: Skip() Method (Method Syntax)

```
list = songs
        .OrderBy(row => row.SongName)
        .Skip(1000).ToList();
```

## Lab 2: SkipLast() Method (Query Syntax)

```
list = (from row in songs
        orderby row.SongName
        select row)
        .SkipLast(2000).ToList();
```

## Lab 2: SkipLast() Method (Method Syntax)

```
list = songs
        .OrderBy(row => row.SongName)
        .SkipLast(2000).ToList();
```

## Lab 3: SkipWhile() Method (Query Syntax)

```
list = (from row in songs
        orderby row.GenreId
        select row)
        .SkipWhile(row => row.GenreId == 1).ToList();
```

## Lab 3: SkipWhile() Method (Method Syntax)

```
list = songs
        .OrderBy(row => row.GenreId)
        .SkipWhile(row => row.GenreId == 1).ToList();
```

## Lab 4: Take() Method (Query Syntax)

```
list = (from row in songs
        orderby row.SongName
        select row) .Take(5).ToList();
```

## Lab 4: Take() Method (Method Syntax)

```
list = songs
        .OrderBy(row => row.SongName)
        .Take(5).ToList();
```

## Lab 5: TakeLast() Method (Query Syntax)

```
list = (from row in songs
        orderby row.SongName
        select row).TakeLast(5).ToList();
```

## Lab 5: TakeLast() Method (Method Syntax)

```
list = songs
        .OrderBy(row => row.SongName)
        .TakeLast(5).ToList();
```

## Lab 6: Take() Method using Range Operator (Query Syntax)

```
list = (from row in songs
        orderby row.SongName
        select row).Take(5..10).ToList();
```

## Lab 6: Take() Method using Range Operator (Method Syntax)

```
list = songs
        .OrderBy(row => row.SongName)
        .Take(5..10).ToList();
```

## Lab 7: TakeWhile() Method (Query Syntax)

```
list = (from row in songs
        orderby row.GenreId
        select row)
        .TakeWhile(row => row.GenreId == 1).ToList();
```

## Lab 7: TakeWhile() Method (Method Syntax)

```
list = songs
        .OrderBy(row => row.GenreId)
        .TakeWhile(row => row.GenreId == 1).ToList();
```

## Lab 8: Distinct() Method (Query Syntax)

```
list = (from row in songs
        orderby row.Rating
        select row.Rating).Distinct().ToList();
```

## Lab 8: Distinct() Method (Method Syntax)

```
list = songs
        .OrderBy(row => row.Rating)
        .Select(row => row.Rating)
        .Distinct().ToList();
```

## Lab 9: DistinctBy() Method (Query Syntax)

```
list = (from row in songs
        orderby row.Rating
        select row)
        .DistinctBy(row => row.Rating).ToList();
```

## Lab 9: DistinctBy() Method (Method Syntax)

```
list = songs
        .OrderBy(row => row.Rating)
        .DistinctBy(row => row.Rating).ToList();
```