



Collection Best Practices

C# Tips

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Collection Best Practices

Use `IEnumerable`, `ReadOnlyCollection`, or `ReadOnlyList`:

Choose `IEnumerable<T>` if the consumer only needs to iterate through the collection, `ReadOnlyCollection<T>` for access with a known count, or `ReadOnlyList<T>` for indexed access.

Avoid returning null:

Return an empty list or enumerable instead of null to prevent null reference exceptions.

Return Immutable Collections:

For safety and to prevent modifications, consider using immutable collections. This ensures the data you expose cannot be altered.

Consider Thread Safety:

Ensure safety for enumerations in multi-threaded environments where other threads may alter the collection.

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Bad Example

```
public List<Employee> GetEmployeesAndAlumni()  
{  
    var employees = new List<Employee> () { ... };  
  
    return employees;  
}
```

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Good Example

```
public IReadOnlyList<Employee> GetEmployeesAndAlumni()  
{  
    var employees = new List<Employee> () { ... };  
  
    return employees.AsReadOnly();  
}
```

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