C# 7 cheat sheet

```
Out variables
int.TryParse("123", out int i);
Tuples and deconstruction
(double, int) t1 = (4.5, 3);
(double Sum, int Count) t2 = (4.5, 3);
(int min, int max) FindMinMax(int[] input)
   // ...
Pattern matching
public void PrintStars(object o)
{
    if (o is null) return; // constant pattern "null"
   if (!(o is int i)) return; // type pattern "int i"
   WriteLine(new string('*', i));
}
Local functions
string GetText(string path, string filename)
{
   var reader = File.OpenText($"{AppendPathSeparator(path)}{filename}");
   var text = reader.ReadToEnd();
    return text;
    string AppendPathSeparator(string filepath) =>
        filepath.EndsWith(@"\") ? filepath : filepath + @"\";
}
Expanded expression bodied members
public class Location
{
   private string _locationName;
    public Location(string name) => _locationName = name;
    string Name => _locationName;
}
Discards
var validInteger = int.TryParse("foo", out _);
```

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Binary Literals and Digit Separators

```
var oneMillion = 1_000_000;
var oneMillionBinary = 0b111101000010010000000;
```

Throw expressions

```
string first = args.Length >= 1 ?
    args[0] :
    throw new ArgumentException("Please supply at least one argument.");
```