Enum

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What is enum?

- Is a keyword
- Declare an enumeration
- Should be define directly within a namespace

Enum declaration

```
1  ⊞using ...
6
7  ⊟namespace test
8  {
9      //Sat is 0, Sun is 1, Mon is 2
       0 references
10     enum Day { Sat, Sun, Mon, Tue, Wed, Thu, Fri };
11
12     //Sat is 1, Sun is 2, Mon is 3
       0 references
13     enum Day2 : byte { Sat = 1, Sun, Mon, Tue, Wed, Thu, Fri };
14
       0 references
15  ⊞  class Program...
21  }
```

Example 1

```csharp
public class Program
{
    2 references
    enum Day { Sun, Mon, Tue, Wed, Thu, Fri, Sat };

    0 references
    static void Main()
    {
        int x = (int)Day.Sun;
        int y = (int)Day.Fri;
        Console.WriteLine("Sun = {0}", x);
        Console.WriteLine("Fri = {0}", y);
    }
}
/* Output:
    Sun = 0
    Fri = 5
*/
```

Example 2

```csharp
public class Program
{
    2 references
    enum Range : long { Max = 2147483648L, Min = 255L };
    0 references
    static void Main()
    {
        long x = (long)Range.Max;
        long y = (long)Range.Min;
        Console.WriteLine("Max = {0}", x);
        Console.WriteLine("Min = {0}", y);
    }
}
/* Output:
    Max = 2147483648
    Min = 255
*/
```

Exercise