State Pattern

Tillader at et objekt kan ændre dets adfærd. Objektet ser ud til at ændre klasse.

Context (Player)

Har en instans af den nuværende state.

State

Interface til alle states en Player skal kunne have.

Concrete State (WalkAround, Eat, Sleep)

Ansvarlig for at beslutte hvad Player skal gøre.

```
class Player
    public State State
        set
    public int hunger = 5;
    public Player(State state)
        State = state;
    public void DoSomething()
```

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```
abstract class State
{
    public abstract void Handle(Player context);
}
```

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Ansvarlig for at beslutte hvad Player skal gøre.

```
class WalkAround : State
    public override void Handle(Player player)
        Console.WriteLine("Walking around");
        player hunger--;
        if (player.hunger <= ∅)</pre>
            player.State = new Eat();
class Fat : State
    public override void Handle(Player player)
        Console.WriteLine("Eating");
        player.hunger = 5;
        player.State = new Sleep();
class Sleep : State
    public override void Handle(Player player)
        Console.WriteLine("Sleeping");
        player.State = new WalkAround();
```

```
■ E:\Projects\ProgrammingExam\StatePattern\bin\Debug\StatePattern.exe
```

```
Walking around
                                                         Walking around
                                                         Walking around
                                                         Walking around
                                                         Walking around
                                                         Eating
                                                         Sleeping
                                                         Walking around
                                                         Walking around
Player player = new Player(new WalkAround());
                                                         Walking around
                                                         Walking around
                                                         Walking around
                                                         Eating
                                                         Sleeping
                                                         Walking around
                                                         Walking around
                                                         Walking around
                                                         Walking around
                                                         Walking around
                                                         Eating
                                                         Sleeping
                                                         Walking around
                                                         Walking around
                                                         Walking around
                                                         Walking around
                                                         Walking around
                                                         Eating
                                                         Sleeping
```

static void Main(string[] args)

Console.ReadLine();

for (int i = 0; i < 50; i++)

player.DoSomething();

