Opdracht 2.

|  |  |  |  |
| --- | --- | --- | --- |
| T | S1 | S2 | S3 |
| 1 | -0.1 | -0.1 | 0 |
| 2 | -0.2 | -0.2 | 0 |
| 3 | -0.3 | -0.3 | 0 |
| 4 | -0.4 | -0.4 | 0 |
| 5 | -0.5 | -0.5 | 0 |
| 6 | -0.6 | -0.6 | 0 |
| 7 | -0.7 | -0.7 | 0 |
| 8 | -0.8 | -0.8 | 0 |
| 9 | -0.9 | -0.9 | 0 |
| 10 | -1.0 | -1.0 | 0 |
| 11 | -1.1 | -1.0 | 0 |
| 12 | -1.1 | -1.0 | 0 |
| 13 | -1.1 | -1.0 | 0 |
| 14 | -1.1 | -1.0 | 0 |

y = 1

v(S) = max( Reward next state + Discount(y) \* Value next state past iteration, )

v(S1) = -0.1 + 1 \* 0 = -0.1

v(S2) = max( -0.1 + 1 \* 0 = -0.1, -1 + 1\*0 = -1)

v(S3) = nergens om naar toe te gaan (end state) = 0

Na iteration 11 kan je wel stoppen omdat S1 gaat oneindig door maar nu is de value van S2 kleiner dan de value van S1 dus van S1 naar S2 is nu beter.