|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **State** | **000** | **001** | **010** | **011** | **100** | **101** | **110** | **111** |
| **GoS** | GoS | WaitS | GoS | WaitS | WaitS | WaitS | WaitS | WaitS |
| **WaitS** | GoW | GoW | GoS | GoW | GoP | GoW | GoP | GoW |
| **GoW** | GoW | GoW | WaitW | WaitW | WaitW | WaitW | WaitW | WaitW |
| **WaitW** | GoS | GoW | GoS | GoS | GoP | GoP | GoP | GoP |
| **GoP** | GoP | WPOn1 | WPOn1 | WPOn1 | GoP | WPOn1 | WPOn1 | WPOn1 |
| **WPOn1** | WPOf1 | WPOf1 | WPOf1 | WPOf1 | WPOf1 | WPOf1 | WPOf1 | WPOf1 |
| **WPOf1** | WPOn2 | WPOn2 | WPOn2 | WPOn2 | WPOn2 | WPOn2 | WPOn2 | WPOn2 |
| **WPOn2** | WPOf2 | WPOf2 | WPOf2 | WPOf2 | WPOf2 | WPOf2 | WPOf2 | WPOf2 |
| **WPOf2** | GoS | GoW | GoS | GoS | GoP | GoW | GoS | GoS |

**Input: P, S, W**