# Blocks-World Plan

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| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Action** | **V1 (Table)** | **V21 (A)** | **V22 (A)** | **V31 (B)** | **V32 (B)** |
| T1 | Initial State | 3 | 2 | 0 | 2 | 0 |
| T2 | Pickup A | 2 | 0 | 0 | 2 | 0 |
| T3 | Stack-A-B | 2 | 1 | 0 | 2 | 1 |
| T4 | Unstack-A-B | 2 | 0 | 0 | 2 | 0 |
| T5 | Putdown A | 3 | 2 | 0 | 2 | 0 |
| T6 | Pickup B | 2 | 0 | 0 | 2 | 0 |
| T7 | Stack-B-A | 2 | 0 | 1 | 2 | 0 |
| T8 | Unstack-B-A | 2 | 0 | 0 | 2 | 0 |
| T9 | Putdown B | 3 | 2 | 0 | 2 | 0 |
| T10 | Pickup A | 2 | 0 | 0 | 2 | 0 |
| T11 | Putdown A | 3 | 2 | 0 | 2 | 0 |
| T12 | Pickup B | 2 | 0 | 0 | 2 | 0 |
| T13 | Putdown B | 3 | 2 | 0 | 2 | 0 |
| T14 | Pickup A | 2 | 0 | 0 | 2 | 0 |
| T15 | Stack-A-B | 2 | 1 | 0 | 2 | 1 |
| T16 | Unstack-A-B | 2 | 0 | 0 | 2 | 0 |
| T17 | Putdown A | 3 | 2 | 0 | 2 | 0 |
| T18 | Pickup B | 2 | 0 | 0 | 2 | 0 |
| T19 | Stack-B-A | 2 | 0 | 1 | 2 | 0 |
| T20 | Putdown B | 3 | 2 | 0 | 2 | 0 |
| T21 | No-Op | 3 | 2 | 0 | 2 | 0 |

## Encodings

|  |  |
| --- | --- |
| V1 (Table) – What is on top | |
| 0 | None |
| 1 | A |
| 2 | B |
| 3 | A,B |

|  |  |
| --- | --- |
| V21 (A) – what is below A | |
| 0 | None |
| 1 | B |
| 2 | Table |

|  |  |
| --- | --- |
| V22 (A) – what is on top of A | |
| 0 | None |
| 1 | B |

|  |  |
| --- | --- |
| V31 (B) – what is below B | |
| 0 | None |
| 1 | A |
| 2 | Table |

|  |  |
| --- | --- |
| V32 (B) – what is on top of B | |
| 0 | None |
| 1 | A |