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| Test/scenario number | Test category (Positive tests) | Description of test case/scenario | Status |
| 1 | State dimension | Quantum state dimension for 1 qubit state | Pass |
| 2 | State dimension | Quantum state dimension for 2 qubit state | Pass |
| 3 | State dimension | Quantum state dimension for 4 qubit state | Pass |
| 4 | State initialization | Initialize 1 qubit state to user defined value with real probability amplitudes | Pass |
| 5 | State initialization | Initialize 2 qubit state to user defined value with real probability amplitudes | Pass |
| 6 | State initialization | Initialize 4 qubit state to user defined value with real probability amplitudes | Pass |
| 7 | State initialization | Initialize 1 qubit state to user defined value with complex probability amplitudes | Pass |
| 8 | State initialization | Initialize 2 qubit state to user defined value with complex probability amplitudes | Pass |
| 9 | State initialization | Initialize 4 qubit state to user defined value with complex probability amplitudes | Pass |
| 10 | State initialization | Initialize 1 qubit state to ground state | Not tested yet |
| 11 | State initialization | Initialize 2 qubit state to ground state | Not tested yet |
| 12 | State initialization | Initialize 4 qubit state to ground state | Not tested yet |
| 13 | State initialization | Initialize 1 qubit state to random state and check norm | Not tested yet |
| 14 | State initialization | Initialize 2 qubit state to random state and check norm | Not tested yet |
| 15 | State initialization | Initialize 4 qubit state to random state and check norm | Not tested yet |
| 16 | Quantum gates and measurement | Apply H to 1 qubit state | Not tested yet |
| 17 | Quantum gates and measurement | Apply H to qubit 0 of 2 qubit state | Not tested yet |
| 18 | Quantum gates and measurement | Apply H to qubit 1 of 2 qubit state | Not tested yet |
| 19 | Quantum gates and measurement | Apply H to qubits 0 and 1 of 2 qubit state | Not tested yet |
| 20 | Quantum gates and measurement | Apply H to qubit 0 of 4 qubit state | Not tested yet |
| 21 | Quantum gates and measurement | Apply H to qubit 1 of 4 qubit state | Not tested yet |
| 22 | Quantum gates and measurement | Apply H to qubit 2 of 4 qubit state | Not tested yet |
| 23 | Quantum gates and measurement | Apply H to qubit 3 of 4 qubit state | Not tested yet |
| 24 | Quantum gates and measurement | Apply H to qubits 0 and 1 of 4 qubit state | Not tested yet |
| 25 | Quantum gates and measurement | Apply H to qubits 1 and 2 of 4 qubit state | Not tested yet |
| 26 | Quantum gates and measurement | Apply H to qubits 2 and 3 of 4 qubit state | Not tested yet |
| 27 | Quantum gates and measurement | Apply H to qubits 0 and 2 of 4 qubit state | Not tested yet |
| 28 | Quantum gates and measurement | Apply H to qubits 1 and 3 of 4 qubit state | Not tested yet |
| 29 | Quantum gates and measurement | Apply H to qubits 0 and 3 of 4 qubit state | Not tested yet |
| 30 | Quantum gates and measurement | Apply H to qubits 0,1,2 of 4 qubit state | Not tested yet |
| 31 | Quantum gates and measurement | Apply H to qubits 0,2,3 of 4 qubit state | Not tested yet |
| 32 | Quantum gates and measurement | Apply H to qubits 0,1,3 of 4 qubit state | Not tested yet |
| 33 | Quantum gates and measurement | Apply H to qubits 1,2,3 of 4 qubit state | Not tested yet |
| 34 | Quantum gates and measurement | Apply H to qubits 0,1,2,3 of 4 qubit state | Not tested yet |
| 35 | Quantum gates and measurement | Apply I gate to qubit 1 of 2 qubit state | Not tested yet |
| 36 | Quantum gates and measurement | Apply X gate to qubit 1 of 2 qubit state | Not tested yet |
| 37 | Quantum gates and measurement | Apply Y gate to qubit 1 of 2 qubit state | Not tested yet |
| 38 | Quantum gates and measurement | Apply Z gate to qubit 1 of 2 qubit state | Not tested yet |
| 39 | Quantum gates and measurement | Apply S gate to qubit 1 of 2 qubit state | Not tested yet |
| 40 | Quantum gates and measurement | Apply T gate to qubit 1 of 2 qubit state | Not tested yet |
| 41 | Quantum gates and measurement | Apply Parametric gate to 1 qubit state | Not tested yet |
| 42 | Quantum gates (parametric) and measurement | Apply parametric gate to qubit 0 of 1 qubit state | Not tested yet |
| 43 | Quantum gates (parametric) and measurement | Apply Controlled X gate on control=1, target=0 of 2 qubit state | Not tested yet |
| 44 | Quantum gates (parametric) and measurement | Apply Controlled X gate on control=0, target=1 of 2 qubit state | Not tested yet |
| 45 | Quantum gates (parametric) and measurement | Apply Controlled Y gate on control=1, target=0 of 2 qubit state | Not tested yet |
| 46 | Quantum gates (parametric) and measurement | Apply Controlled parametric gate on control=1, target=0 of 2 qubit state | Not tested yet |