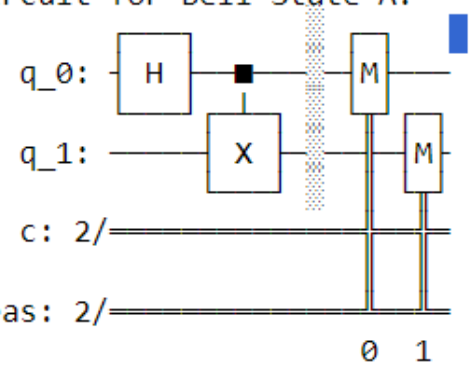
```
Statevector([ 0.+0.0000000e+00j, -1.-1.2246468e-16j,  0.+0.0000000e+00j,
              0.+0.0000000e+00j],
            dims=(2, 2))
Bell State C:
Statevector([1.+0.j, 0.+0.j, 0.+0.j, 0.+0.j],
            dims=(2, 2))
Bell State D:
Statevector([0.+0.j, 0.+0.j, 1.+0.j, 0.+0.j],
            dims=(2, 2))
Measurement outcomes for Bell State A:
{'00 00': 539, '11 00': 485}
Measurement outcomes for Bell State B:
{'10 00': 514, '01 00': 510}
Measurement outcomes for Bell State C:
{'00 00': 497, '11 00': 527}
Measurement outcomes for Bell State D:
{'10 00': 523, '01 00': 501}
Circuit for Bell State A:
```




```
Circuit for Bell State B:
```