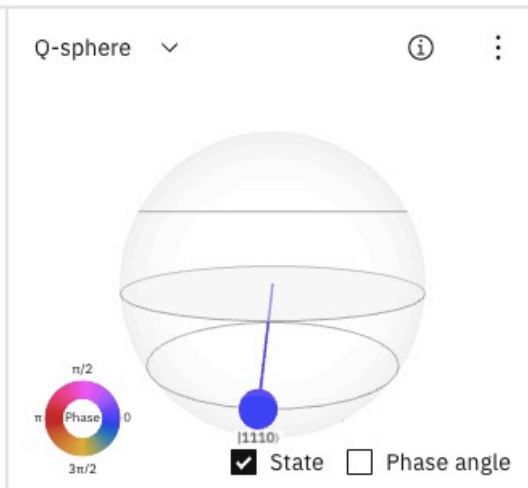
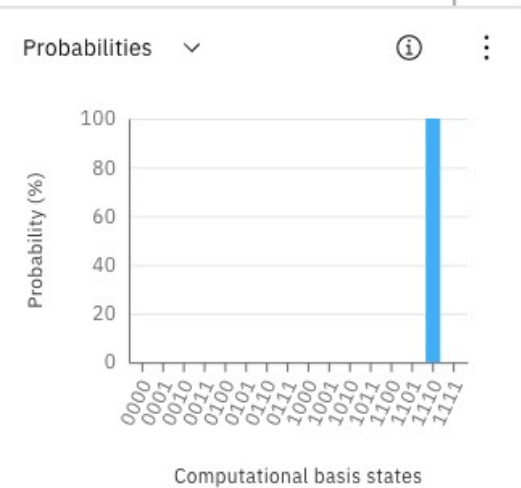
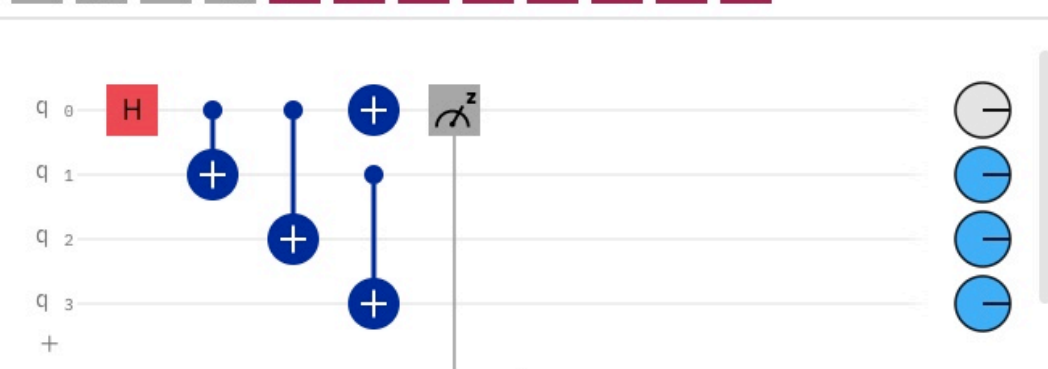


H  $\oplus$   $\oplus$   $\oplus$   $\otimes$  I T S Z  $T^\dagger$   $S^\dagger$  P RZ • i :  
|0>  $\otimes^z$  if ...  $\sqrt{X}$   $\sqrt{X}^\dagger$  Y RX RY U RXX RZZ + Add



OpenQASM 2.0

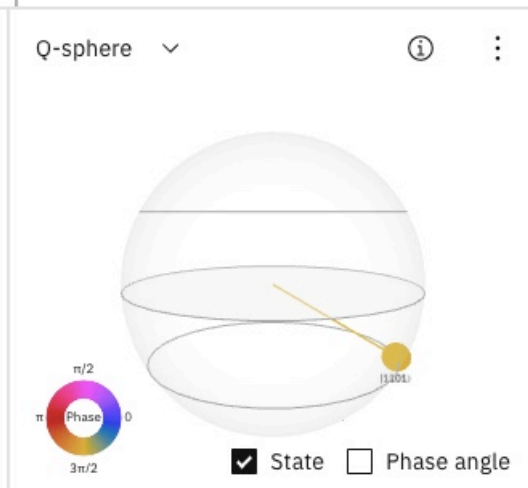
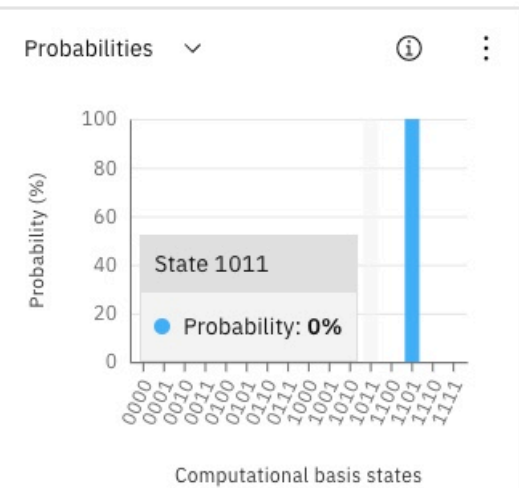
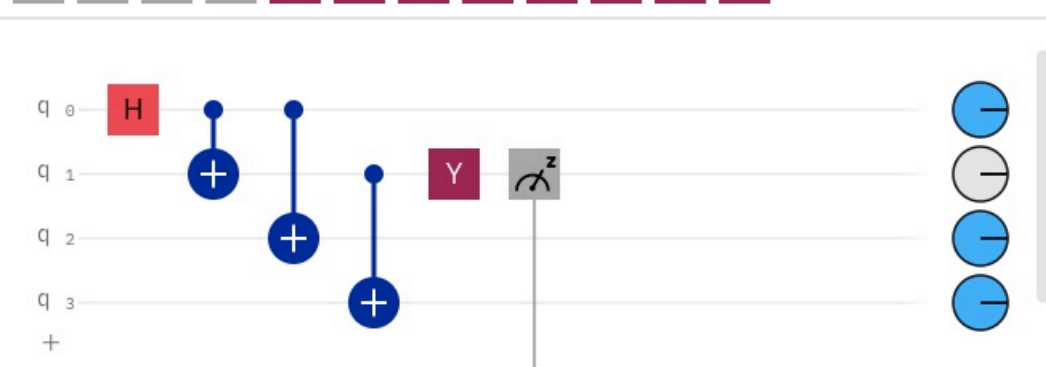
[Open in Quantum Lab](#)

```

1  OPENQASM 2.0;
2  include "qelib1.inc";
3
4  qreg q[4];
5  creg c[4];
6
7  h q[0];
8  cx q[0],q[1];
9  cx q[0],q[2];
10 cx q[1],q[3];
11
12 x q[0];
13 measure q[0] -> c[0];
14
15 //y q[1];
16 //measure q[1] -> c[1];
17
18 //x q[2];
19 //h q[2];
20 //s q[2];
21 //measure q[2] -> c[2];
22
23 //h q[3];
24 //s q[3];
25 //measure q[3] -> c[3];

```

H  $\oplus$   $\oplus$   $\oplus$   $\otimes$  I T S Z  $T^\dagger$   $S^\dagger$  P RZ ● i :  
|0>  $\otimes^Z$  if ⋮  $\sqrt{X}$   $\sqrt{X}^\dagger$  Y RX RY U RXX RZZ + Add



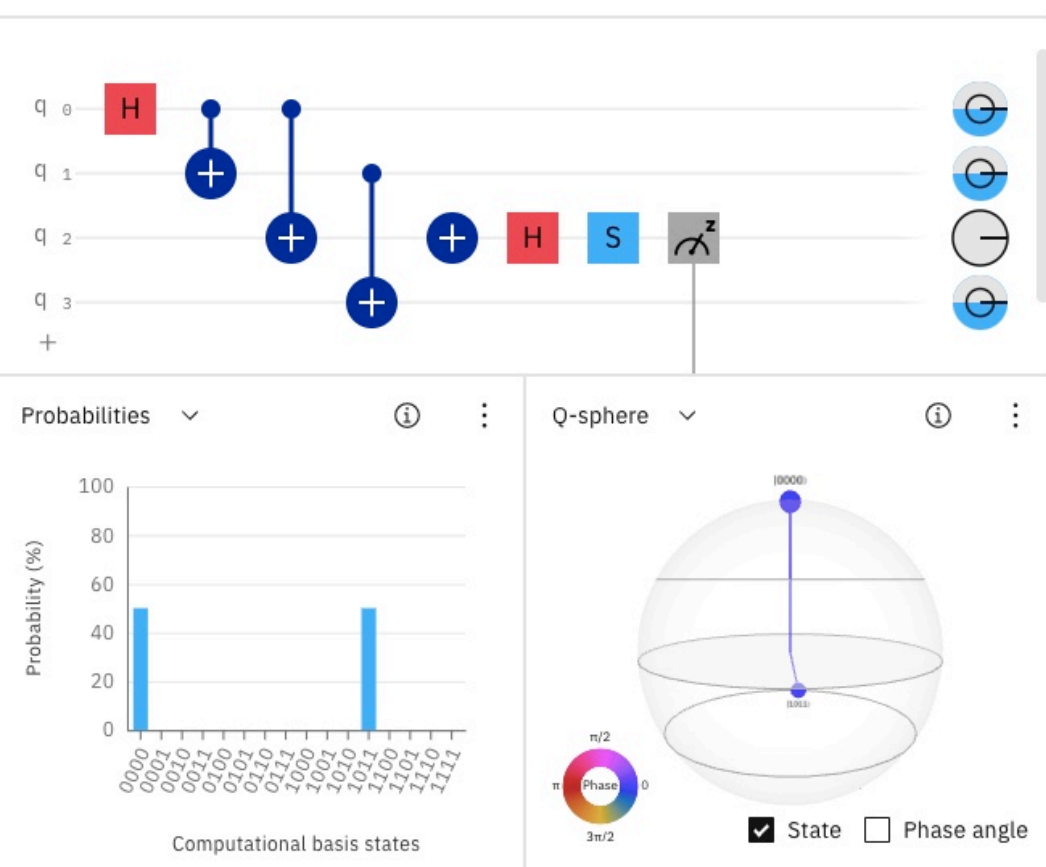
OpenQASM 2.0 ⌵ ⋮

[Open in Quantum Lab](#)

```

1 OPENQASM 2.0;
2 include "qelib1.inc";
3
4 qreg q[4];
5 creg c[4];
6
7 h q[0];
8 cx q[0],q[1];
9 cx q[0],q[2];
10 cx q[1],q[3];
11
12 //x q[0];
13 //measure q[0] -> c[0];
14
15 y q[1];
16 measure q[1] -> c[1];
17
18 //x q[2];
19 //h q[2];
20 //s q[2];
21 //measure q[2] -> c[2];
22
23 //h q[3];
24 //s q[3];
25 //measure q[3] -> c[3];

```

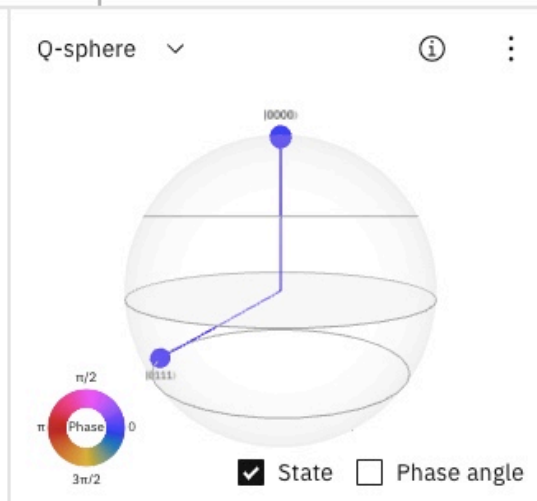
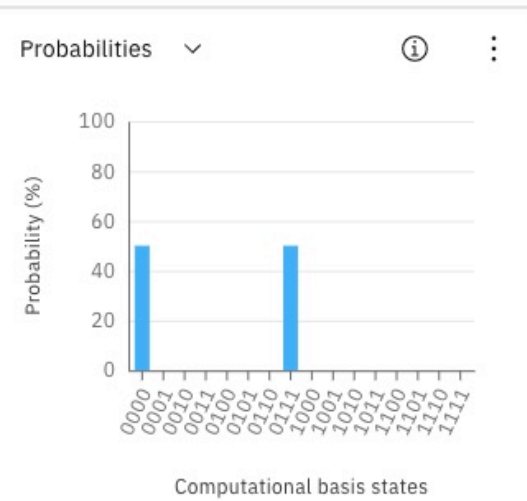
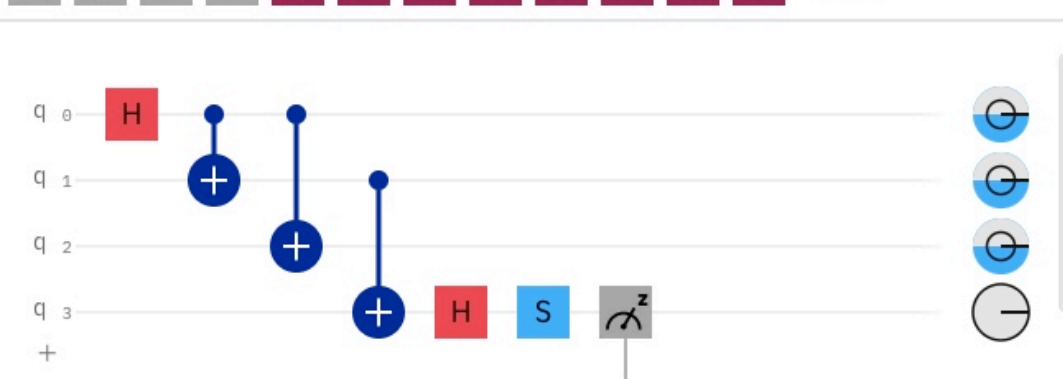


```

2  include "qelib1.inc";
3
4  qreg q[4];
5  creg c[4];
6
7  h q[0];
8  cx q[0],q[1];
9  cx q[0],q[2];
10 cx q[1],q[3];
11
12 //x q[0];
13 //measure q[0] -> c[0];
14
15 //y q[1];
16 //measure q[1] -> c[1];
17
18 x q[2];
19 h q[2];
20 s q[2];
21 measure q[2] -> c[2];
22
23 //h q[3];
24 //s q[3];
25 //measure q[3] -> c[3];
26

```

H  $\oplus$   $\oplus$   $\oplus$   $\otimes$  I T S Z  $T^\dagger$   $S^\dagger$  P RZ • ⓘ ⋮  
|0>  $\otimes^z$  if ⋮  $\sqrt{X}$   $\sqrt{X}^\dagger$  Y RX RY U RXX RZZ + Add

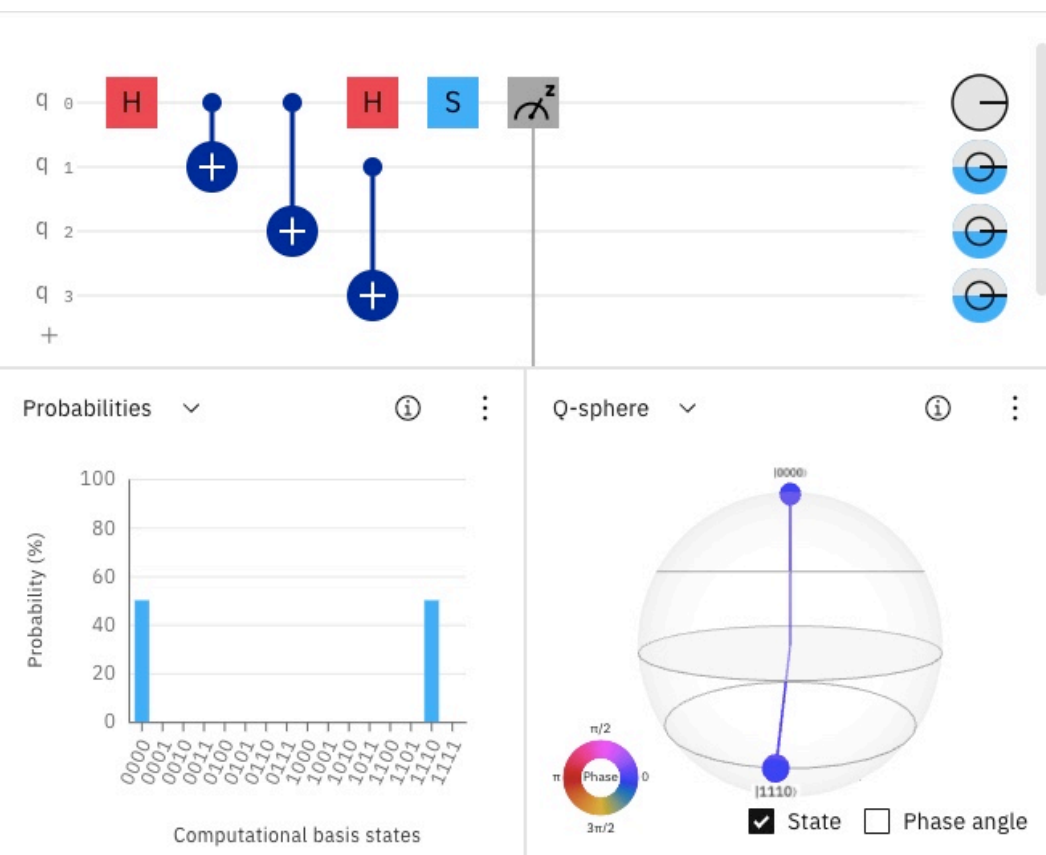


OpenQASM 2.0 ⌵ ⓘ ⋮

[Open in Quantum Lab](#)

```

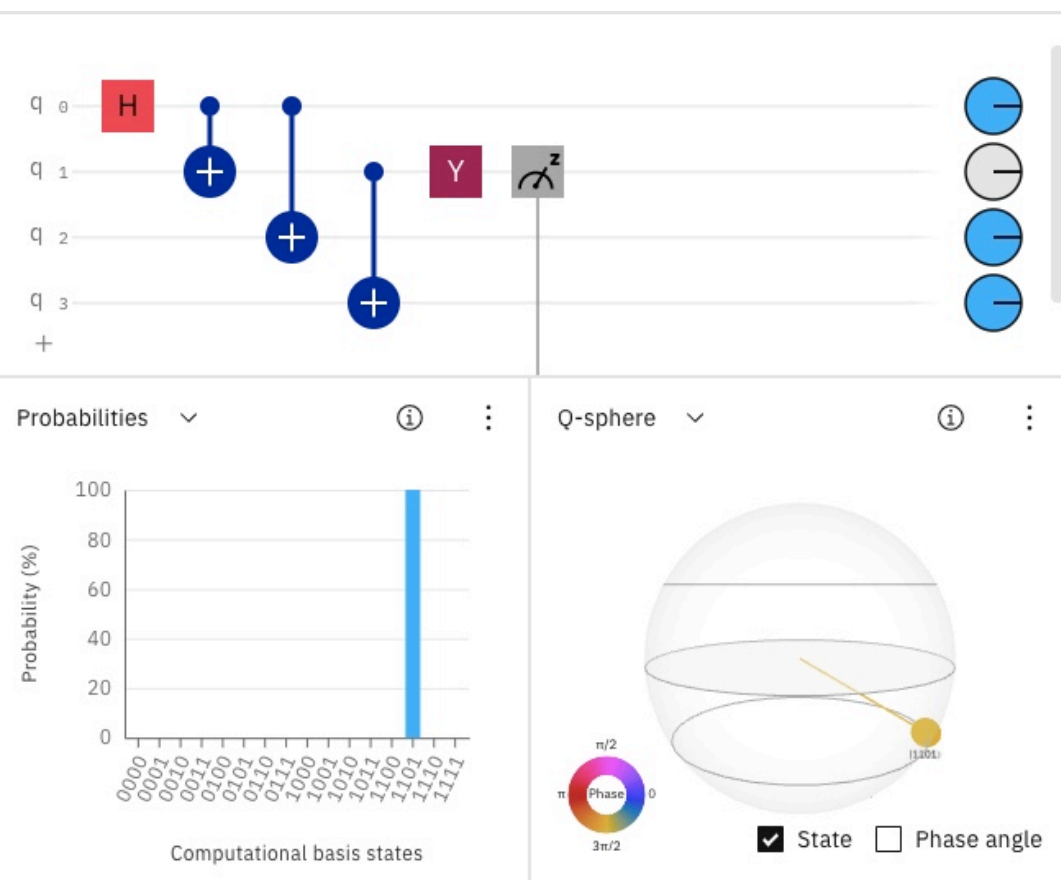
2  include "qelib1.inc";
3
4  qreg q[4];
5  creg c[4];
6
7  h q[0];
8  cx q[0],q[1];
9  cx q[0],q[2];
10 cx q[1],q[3];
11
12 //x q[0];
13 //measure q[0] -> c[0];
14
15 //y q[1];
16 //measure q[1] -> c[1];
17
18 //x q[2];
19 //h q[2];
20 //s q[2];
21 //measure q[2] -> c[2];
22
23 h q[3];
24 s q[3];
25 measure q[3] -> c[3];
26
  
```



```

2  include "qelib1.inc";
3
4  qreg q[4];
5  creg c[4];
6
7  h q[0];
8  cx q[0],q[1];
9  cx q[0],q[2];
10 cx q[1],q[3];
11
12 h q[0];
13 s q[0];
14 measure q[0] -> c[0];
15
16 //y q[1];
17 //measure q[1] -> c[1];
18
19 //x q[2];
20 //h q[2];
21 //s q[2];
22 //measure q[2] -> c[2];
23
24 //x q[3];
25 //measure q[3] -> c[3];
26

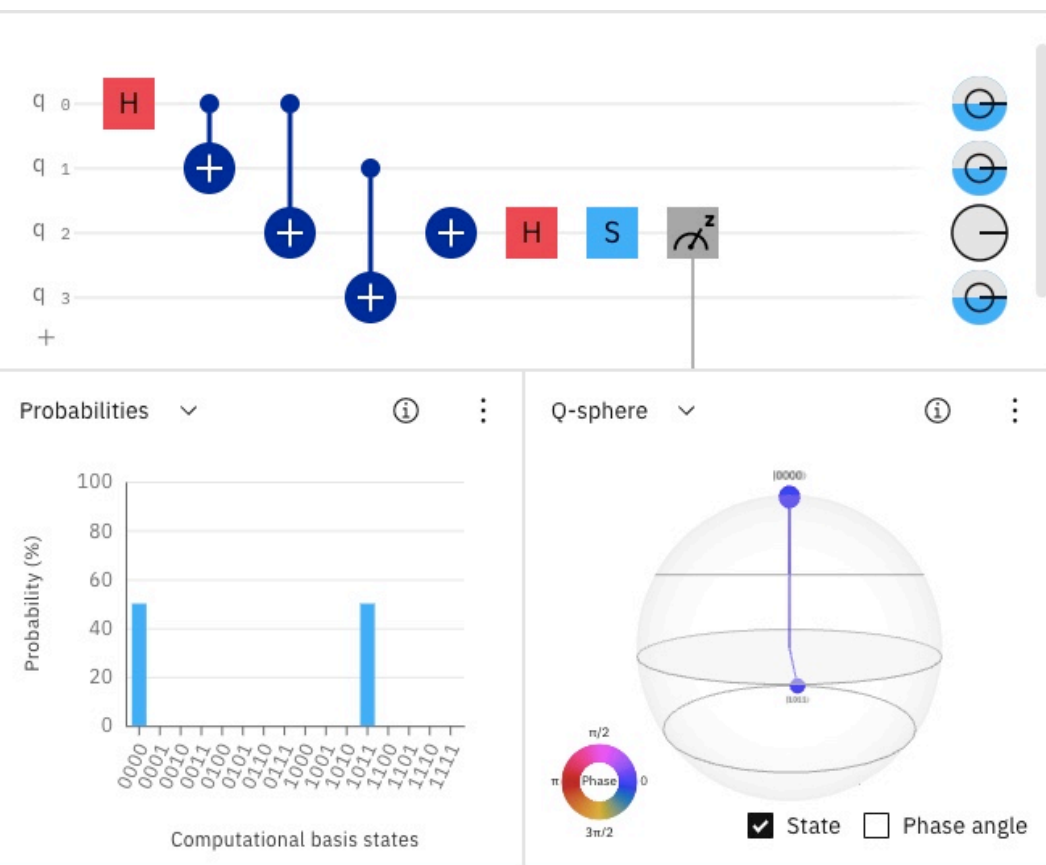
```



```

2  include "qelib1.inc";
3
4  qreg q[4];
5  creg c[4];
6
7  h q[0];
8  cx q[0],q[1];
9  cx q[0],q[2];
10 cx q[1],q[3];
11
12 //h q[0];
13 //s q[0];
14 //measure q[0] -> c[0];
15
16 y q[1];
17 measure q[1] -> c[1];
18
19 //x q[2];
20 //h q[2];
21 //s q[2];
22 //measure q[2] -> c[2];
23
24 //x q[3];
25 //measure q[3] -> c[3];
26

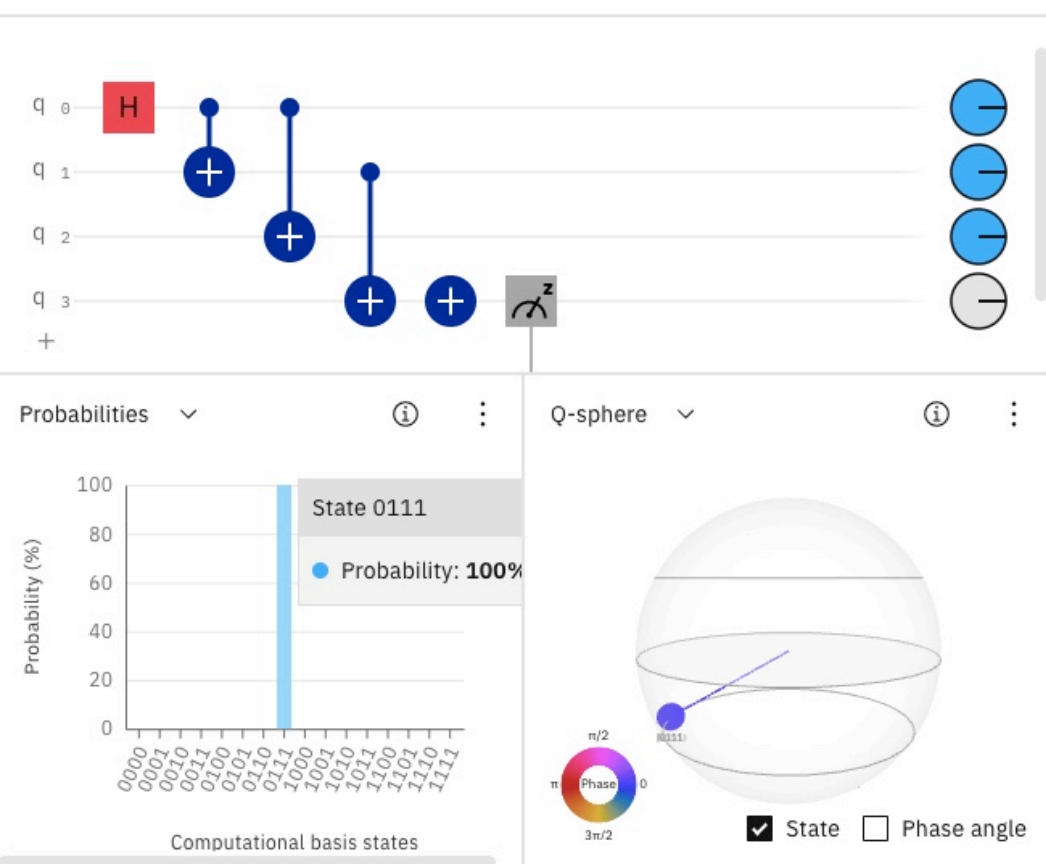
```



```

2  include "qelib1.inc";
3
4  qreg q[4];
5  creg c[4];
6
7  h q[0];
8  cx q[0],q[1];
9  cx q[0],q[2];
10 cx q[1],q[3];
11
12 //h q[0];
13 //s q[0];
14 //measure q[0] -> c[0];
15
16 //y q[1];
17 //measure q[1] -> c[1];
18
19 x q[2];
20 h q[2];
21 s q[2];
22 measure q[2] -> c[2];
23
24 //x q[3];
25 //measure q[3] -> c[3];
26

```



```

2  include "qelib1.inc";
3
4  qreg q[4];
5  creg c[4];
6
7  h q[0];
8  cx q[0],q[1];
9  cx q[0],q[2];
10 cx q[1],q[3];
11
12 //h q[0];
13 //s q[0];
14 //measure q[0] -> c[0];
15
16 //y q[1];
17 //measure q[1] -> c[1];
18
19 //x q[2];
20 //h q[2];
21 //s q[2];
22 //measure q[2] -> c[2];
23
24 x q[3];
25 measure q[3] -> c[3];
26

```