```
In [2]: | secretnum = input()
```

100100

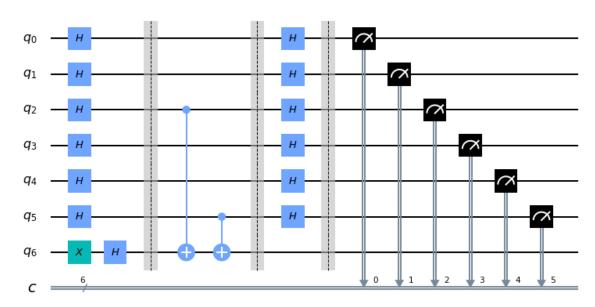
```
In [3]: BVC = QuantumCircuit(len(secretnum)+1,len(secretnum))
BVC.h(range(len(secretnum)))
BVC.x(len(secretnum))
BVC.barrier()

for i, t in enumerate(reversed(secretnum)):
    if t=='1':
        BVC.cx(i,len(secretnum))
BVC.barrier()

BVC.h(range(len(secretnum)))
BVC.barrier()

BVC.cmeasure(range(len(secretnum)),range(len(secretnum)))
BVC.draw(output='mpl')
```

## Out[3]:



```
In [7]: simulator = Aer.get_backend('qasm_simulator')
    result = execute(BVC, backend=simulator, shots=1).result()
    counts=result.get_counts()
    print(counts)

{'100100': 1}
```

In [ ]:	:	