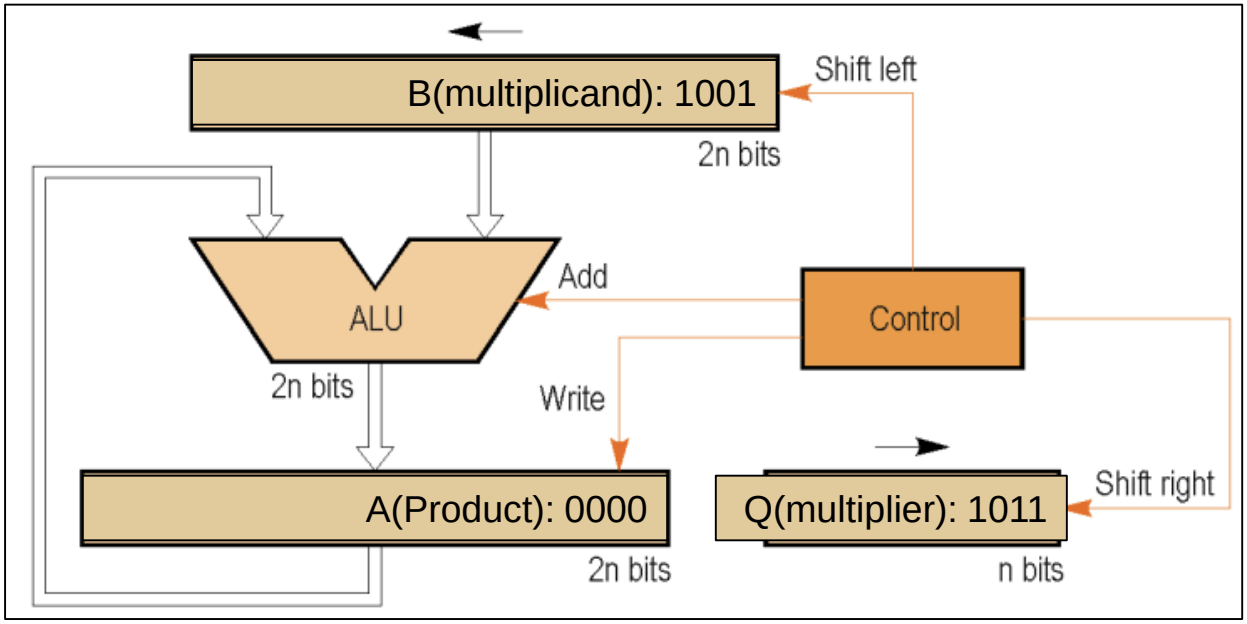
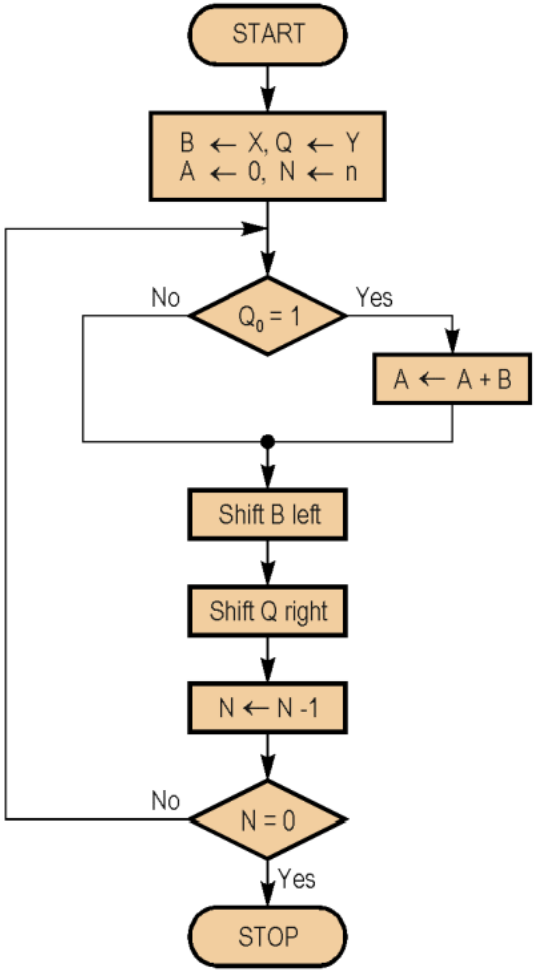
n-bit Add & Shift Multiplier Lab (ver1)

- Product(A) ← Multiplicand(B) * Multiplier(Q)

```
Multiplicand (B=9)          1001
Multiplier(Q=11)       x    1011
                      ---------
                           1001
                          1001
                         0000
                        1001
                      ---------
Product(A:99)          1100011
```



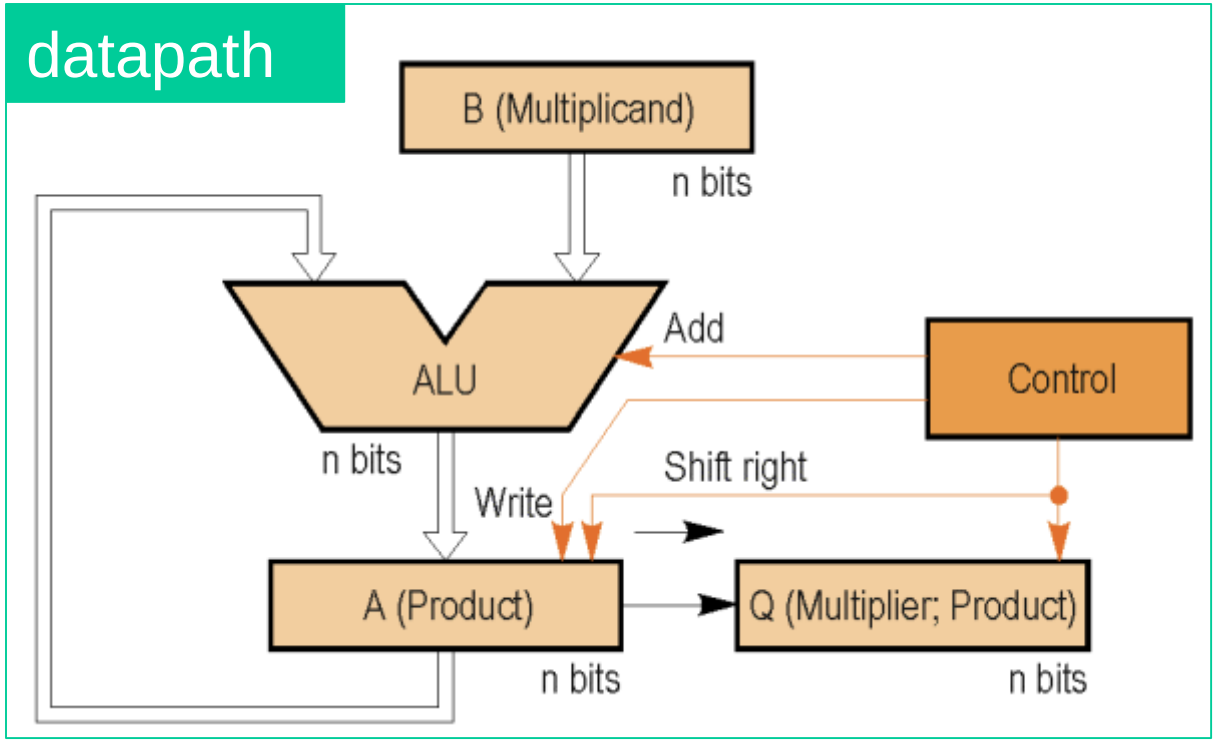


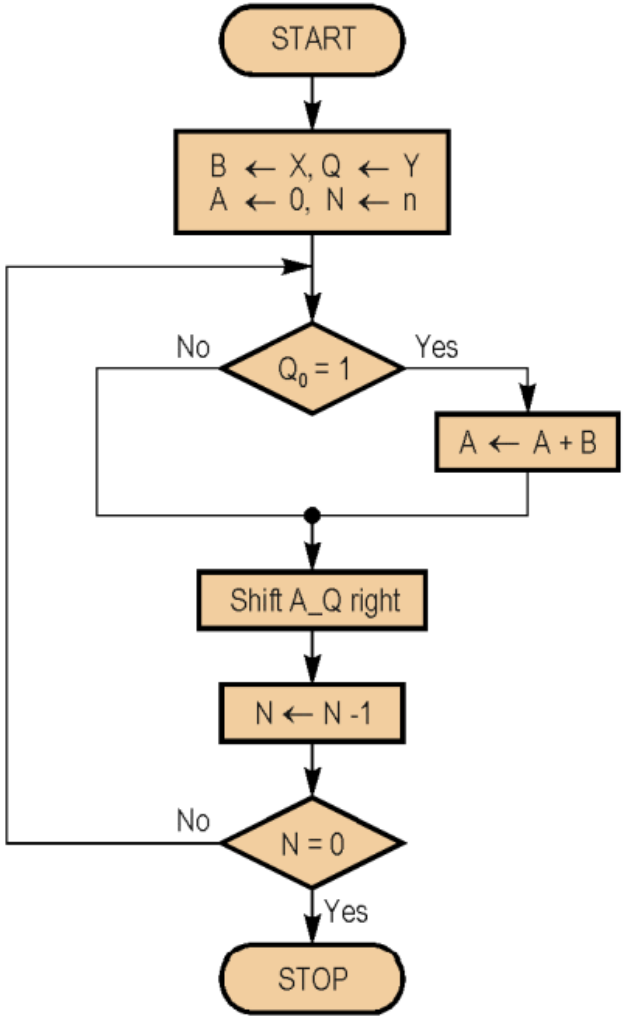
n-bit Add & Shift Multiplier Lab (ver2)

- {N, Q}

← A * B

Step	A	Q	B	Operation
0	0000	1100	1001	Initialization
1	0000	0110	1001	Shift right A_Q
2	0000	0011	1001	Shift right A_Q
3	1001	0011	1001	Add B to A
	0100	1001	1001	Shift right A_Q
4	1101	1001	1001	Add B to A
	0110	1100	1001	Shift right A_Q





N-bit Multiplier Extension Lab