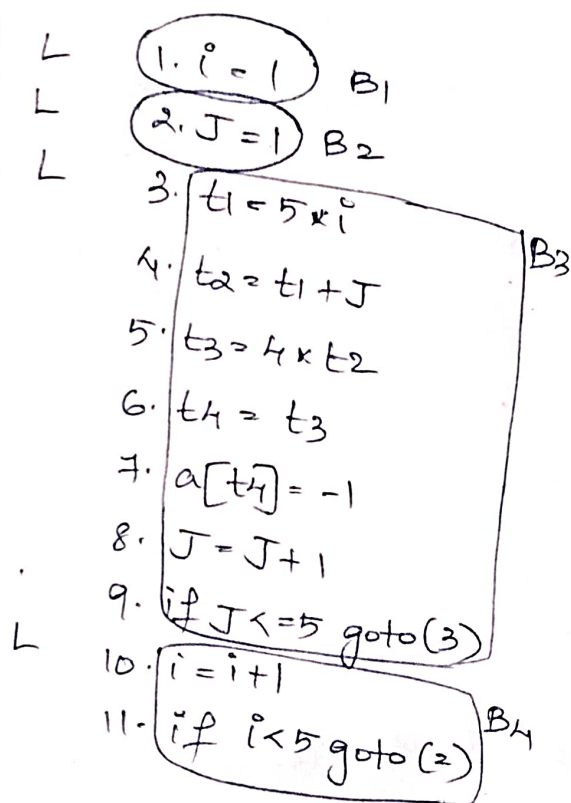


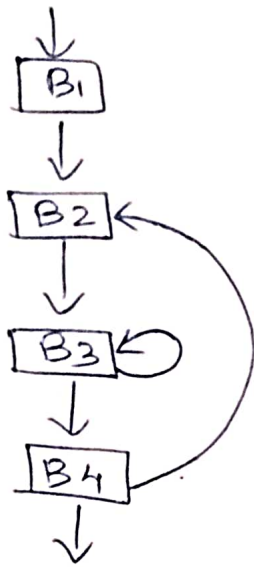
Consider the intermediate code :

1.  $i = 1$
2.  $J = 1$
3.  $t_1 = 5 * i$
4.  $t_2 = t_1 + J$
5.  $t_3 = 4 * t_2$
6.  $t_4 = t_3$
7.  $a[t_4] = -1$
8.  $J = J + 1$
9. if  $J \leq 5$  goto(3)
10.  $i = i + 1$
11. if  $i \leq 5$  goto(2)

find the no. of nodes and edges in Control-flow graph?

⇒



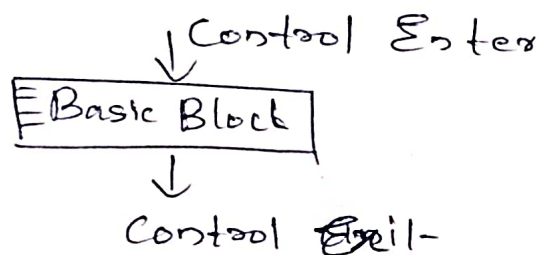


No. of nodes = 4  
No. of edges = 5

How to find leader in basic block?

- Step 1) First statement is always a leader
- Step 2) Address of conditional, unconditional goto are leaders.
- Step 3) Next line of conditional and unconditional goto are leaders.

Basic block properties:



\* First line of basic block is leader