## Basic Blocks and leaders

Ex: a=x+y = 2

Algorith: Paretition into basic bireks. Inputo sequence of 3 address statements. output: A wint of basic blocks. 1. Determine the set of leaders

- Ruleso
  - i) The first otatement in a leadere
  - (i) target of conditional on unconditional goto is a londere
  - (111) statement that immediately follows goto on unconditional goto in a leader.
- 2. for each leader, its banic bireks consists of leaders and all Atatements upto the next & leader.

## friogment of source code

begin

p: =0;

i = 1;

to begin

p = p + a [i] \* b [i];

i = i + 1

end

while i < = 20;

j = j + 1

end

end

leaders = 1, 3, 13

## Three address code B 2 11111= 5 12 . if ic=20 goto (3) 1 13. 17

## flow Greaph

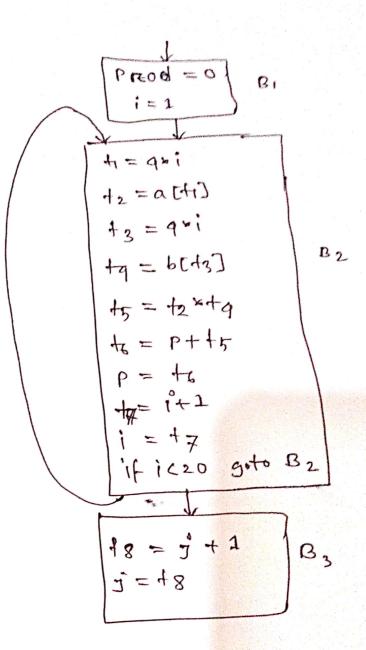
- Diructed Graph

-> Modes -> Baric Blocks Edges -> flow of control

Directed For from Block B1 to B2, if

1. Conditional ore unconditional jump from B1 to B2

2. B2 immediately follows
B1



Note

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