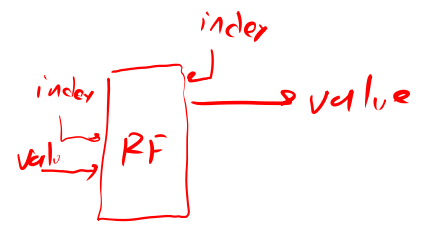




0  $y = x$   
 1  $x += y$   
 2  $x = 3$   
 3  $y = x + 2$   
 4  $x += y$

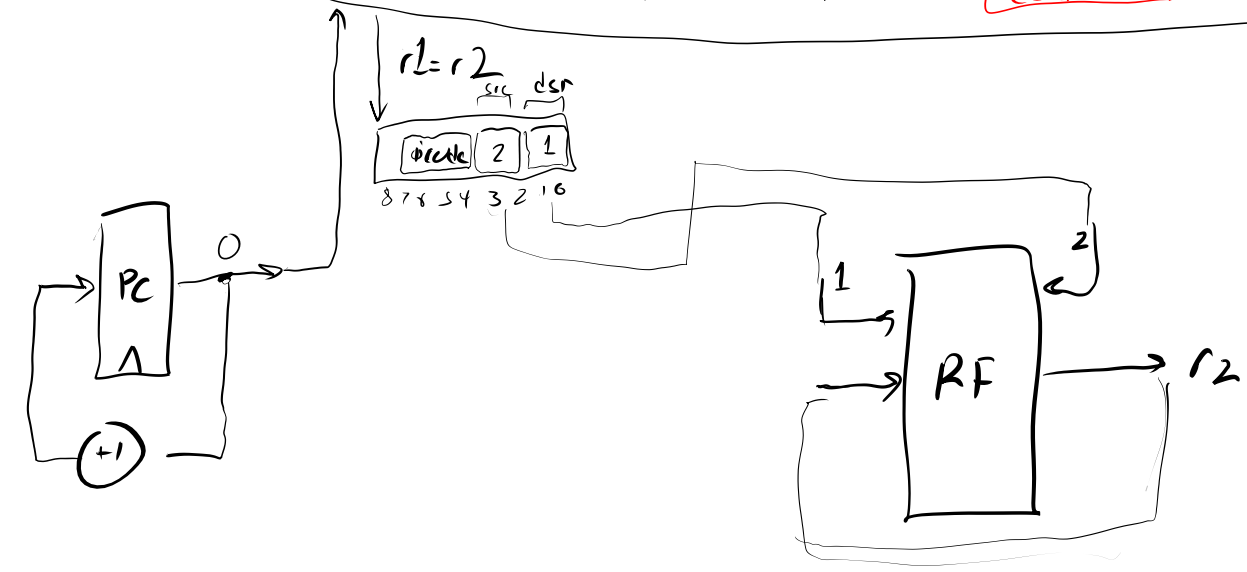
✓ Code  
 ✓ State - register file  
 Position in code ) "Program Counter" PC  
 Number



icode  
opcode

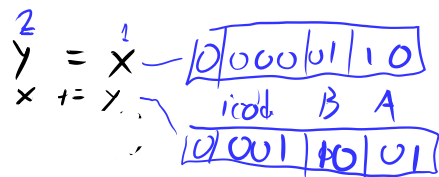
0  $rA = rB$   
 1  $rA += rB$   
 2  $rA ← rB$

RAM Random Access Memory  
 huge array of bytes code



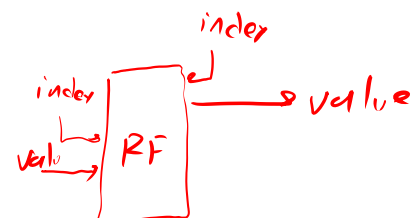
x 8

8  
9  
10  
11  
12



✓ Code

✓ State - register file

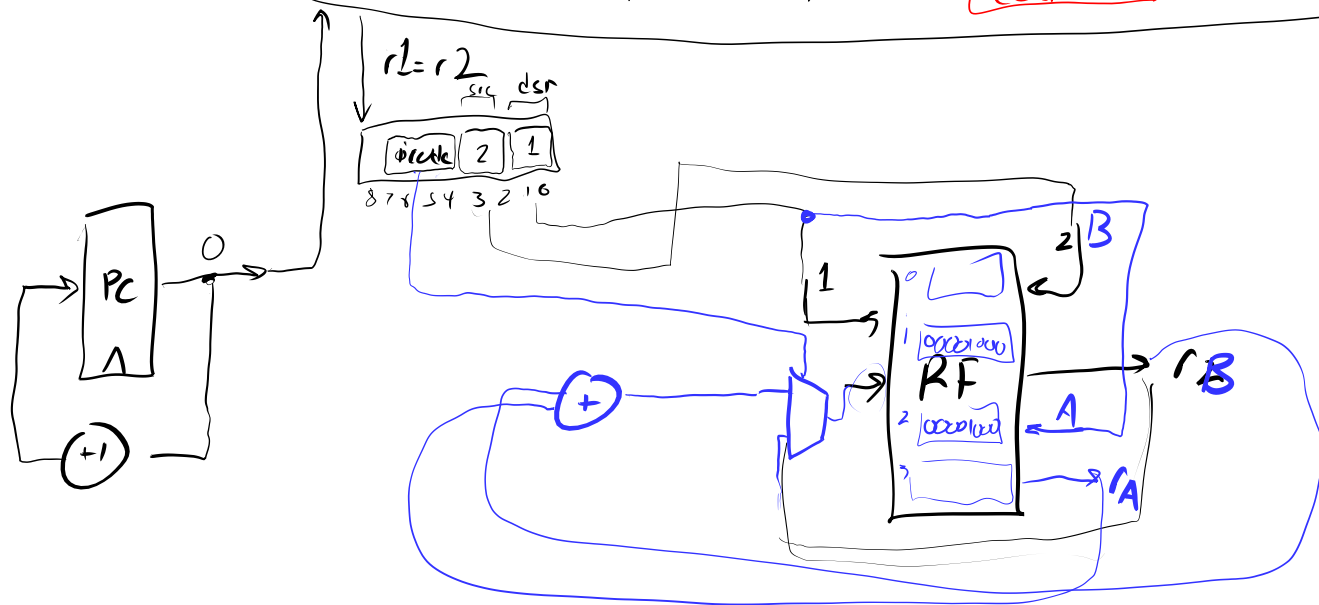


Position in code Number "Program Counter" PC

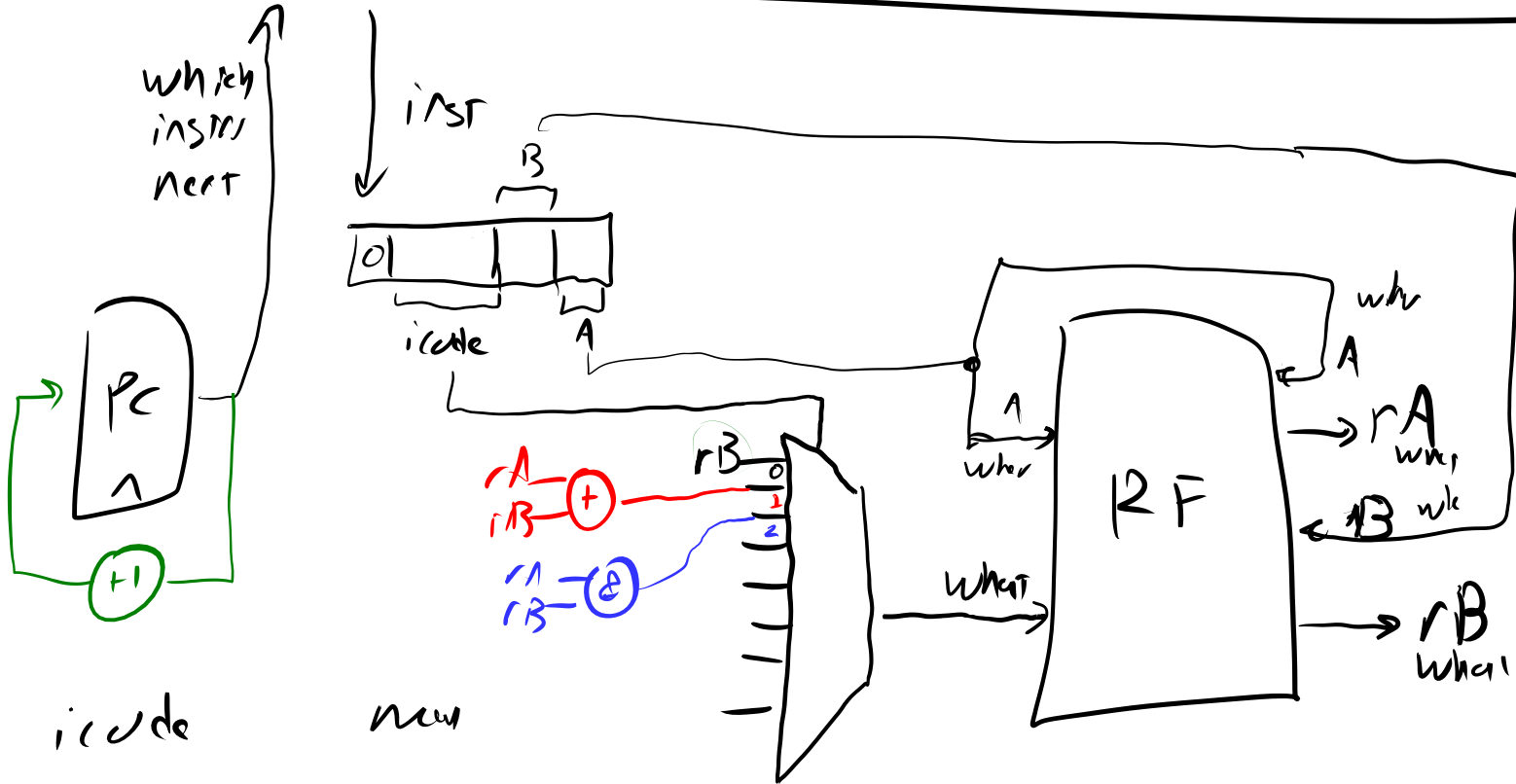
icode  
opcode

- 0  $rA = rB$
- 1  $rA += rB$
- 2  $rA ← rB$

RAM Random Access Memory  
huge array of bytes code



# IRAM



icode

0

1

2

⋮

new

$rA = rB$

$rA + rB$

$rA - rB$

⋮

$r0 = r0$