

$i \leq$

- +ve $i > 6$ False
- o $i = 6$ True
- ve $i < 6$ True

Assignment 7

①

index	value	label	22 store m(2)
-1	1		23 Jump m(4)
0		i	23 half
1		j	
2	0	x	
3	0		
4	5		
5	10		
6	begin		
7	load m(3)] i = 0	
8	store m(0)		
9	load m(3)] j = 0	
10	store m(1)		
11	load m(0)	(i - 5) - 1	
12	sub m(4)		
	sub m(-1)		
13	Jump + (23) Positive		
14	load m(1)	(j - 10) - 1	
15	sub m(5)		
	sub (-1)		
16	Jump + (11) Positive		
17	load m(0)		
18	sub m(1)		
19	Jump + m(14) if Positive		
20	load m(2)	(x = x + i)	
21	Add m(0)		

$I = j$

- +ve $I > j$ False
- o $I = j$ True
- ve $I < j$ False

②

index	value	label
0	10	A
1	2	B
2		X
3	0	
4	1	

A=10,
B=2,
X,
0,
1)

5 begin

6 load m(0) }
 7 Div m(1) } ((A%B)-1)
 8 Sub m(4) }

$A \% B$ ← 0 True
 1 False
 negative high 1 + true

9 Jump+ (17) Positive

① Zashen
 25ly 10
 - negative

10 load m(1) }
 11 Div m(0) } (B%A)-1
 12 Sub m(4) }

13 Jump+ (17) Positive

14 load m(4)
 15 store m(2)

16 Jump m(19)

17 load m(3)
 18 store m(2)

19 halt