

9

1 2 3 4
↑ ↑
start end

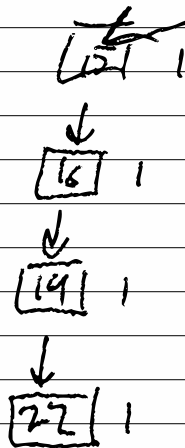
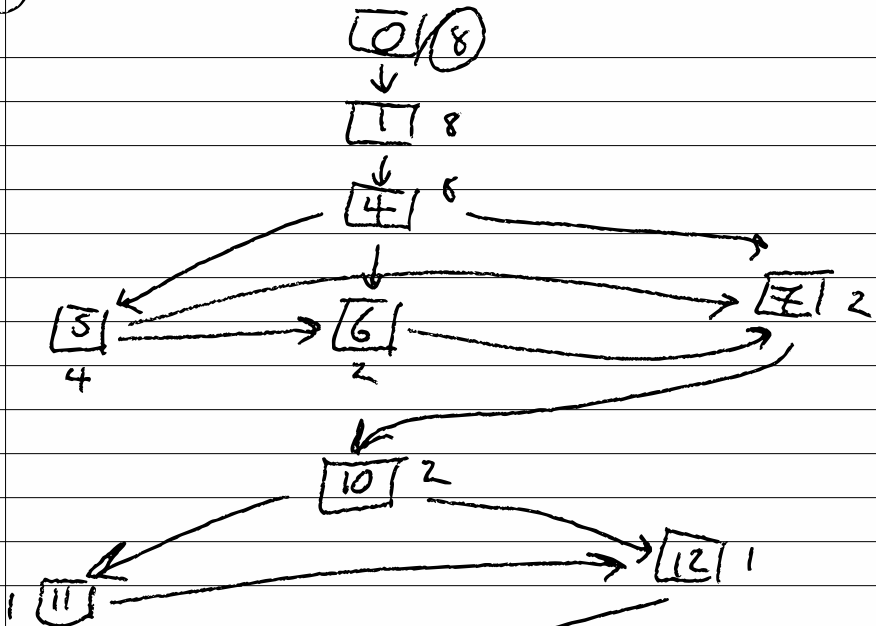
start = end = 0

while sum(values[start:end]) < target
 end += 1

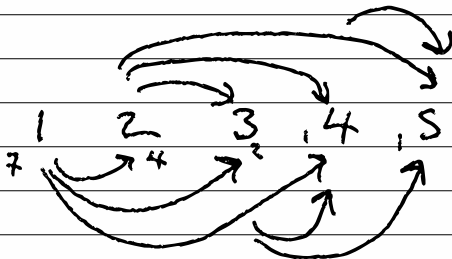
if sum(...) != target
 start += 1

return min/max(values[s:e])

10



route for X
 $= \sum_{c \in \text{children of } X} \text{route for } c$
 where $c = \text{children of } X$



(13)

4, 11,	+1
1, 8	+2
5, 12	+3
2, 9	+4
6, 13	+5
3, 10	+6

$$7 + 13a = 8 + 196$$

$$13a = 196 + 1$$

$$(196 + 1) \% 13 = 0$$

(19)

0: 8, 11

8: 42 | 42 8

11: 42 31 | 42 11 31

0: (42 | 42 8) (42 31 | 42 11 31)

42 42 31

42 42 × n 31 × n

42 × n 42 31

42 × n 42 × m 31 × m

42 × (m + n) 31 × m

m ≥ 1, n ≥ 1

(22)

43	2	19	29	43	14	2	29
19	29	43	14	2	29	43	19
	14	2			19	14	

43	19	14	29	43	2
14	29	43	2	19	29
	2	19			14

(23)

1 2 3 4 5 ... 100

2 3 4 5 ... 100 1

5 ... 100 2 3 4 1

6 7 8 ... 100 2 3 4 1 5

9 ... 100 2 3 4 6 7 8 1 5

10 11 12 ... 100 2 3 4 6 7 8 1 5 9

13 ... 100 2 3 4 6 7 8 10 11 12 1 5 9

1000

19000

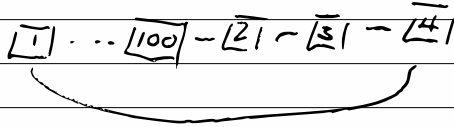
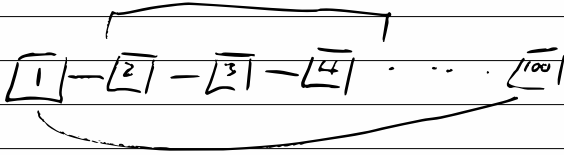
100,000

453, 693

3252, 5171

69,50

23



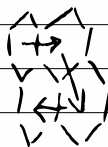
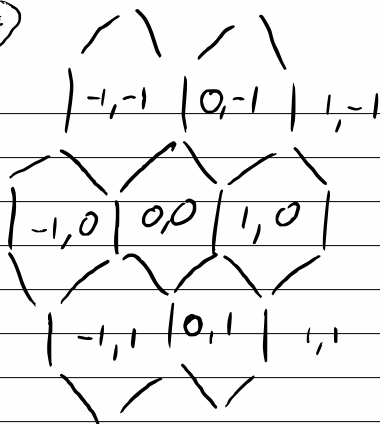
$current.next = [current + 3].next$

$[current + 1].prev = dest.inx$

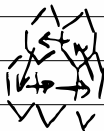
$[current + 3].next = dest.next$

$dest.next = [current + 1].inx$

(24)



$$\bar{E}, \bar{SE}, \psi = \bar{SE}$$



$$NW, W, SW, \bar{E}, \bar{E} = \emptyset$$

$$NW + SW = W \rightarrow (NW, SW, \bar{E}), (W, \bar{E})$$

$$W + \bar{E} = \emptyset$$

