R-724

Sunday, 6 June 2021 15:28

3 6 >

0 3 x 9

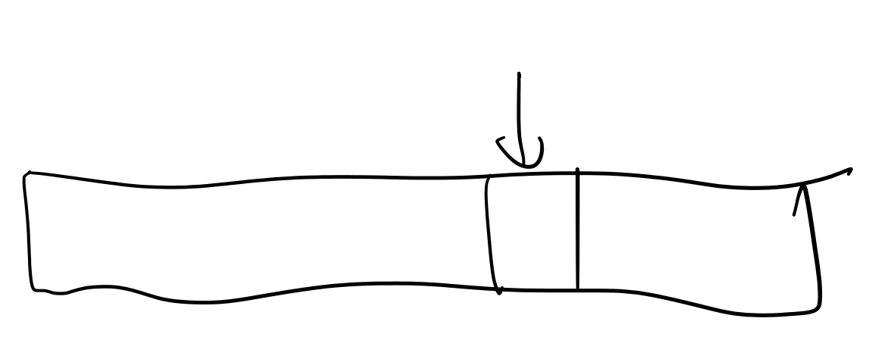
1 2 3 4 5

1 3 4

3 5

-7 -2 3 8 13

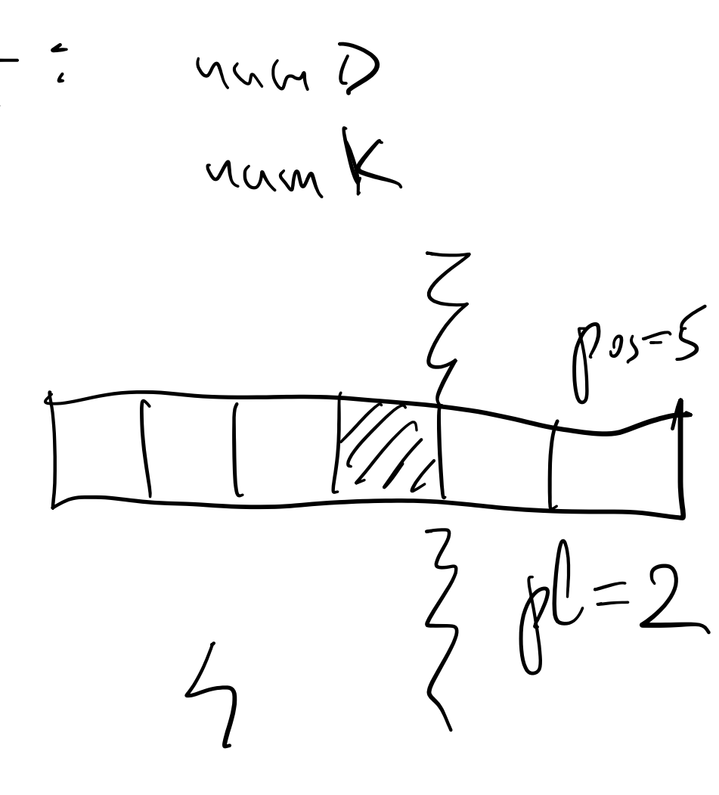
D K



1 2 1

D K }D K

best: numPieces
numD
numK



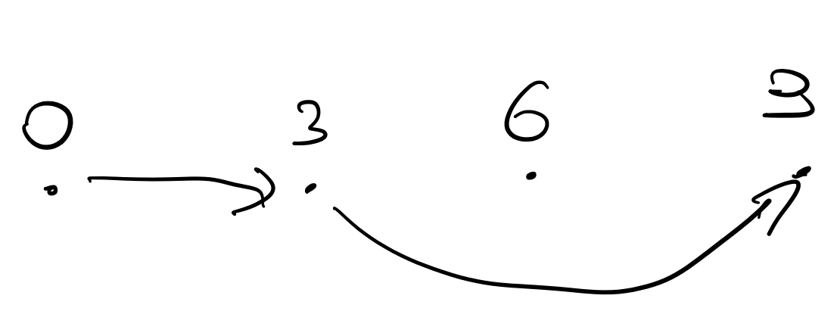
[DK|DK|DK|DK]

1:2 2:4

DKK | DDKKKK

3:6
D K

1:2
2:3
3:6

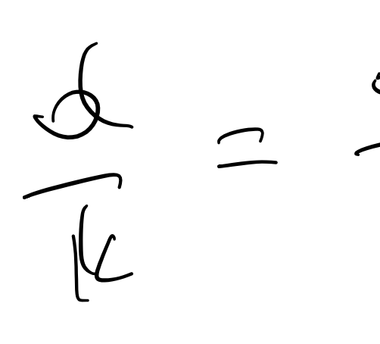


1+2 | 2*(1+2) |

3:6 ⇒ $\underbrace{1:3}_{jump}$

3:7 = 1

$\frac{d}{k} = \frac{d'}{k'}$



$a_1 \dots a_{2k-1}$

$b_1 \dots b_k$

b_i = median of $a_1 \dots a_{2i-1}$

k-2

x
⇓
x

$\underbrace{x \quad y \quad 2}_{b_1 \quad b_2}$

$\underbrace{3 \quad 2 \quad 5}_{3 \quad 3}$

3 ≶

6 2 1 3

6 2 $\overset{<2}{\Downarrow}$ 1 <1 <1 3 ☐

3* ≥3

6 2 1

3 ≤3 ≥3 ≤3 ≥3

3

2 1 2 3

2 1 ≤1 $\overset{\ge 3}{\Uparrow}$ 3 ≥2 ≥2 ☐ ☐ ≥3 ≥3

← ≤ ☐ ≥ →

5 4 2

5 4 ≤4 ≤2 ≤2
⇓
2

n* ≤ x ←| • • } • |→ m* ≥ y

2 1 2 3

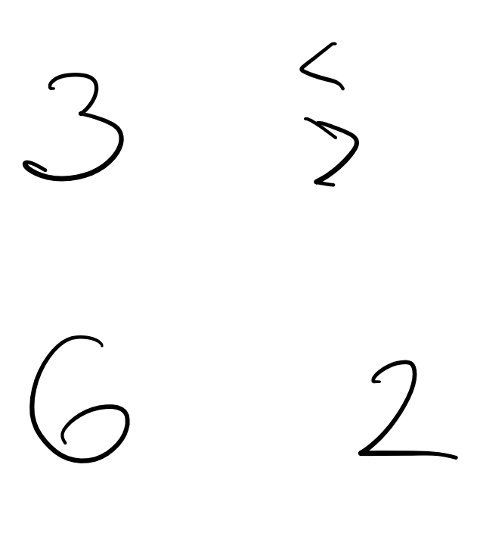
2 | *|1 2 | *|1 2|**

*|1 2 3|***

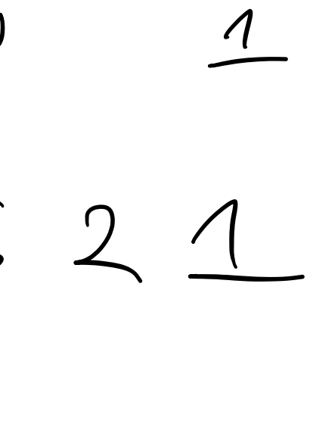
2 1 2 3

2 | *|1 2 | *|1 2|** |

*|1 2 3|***



x y $|x-y| \le 1$



x>0

$x > v_i$ for some i

# 0 1 0
# 1 0 0

# # # #
# #
# # #

## ## ⇒ 01 10

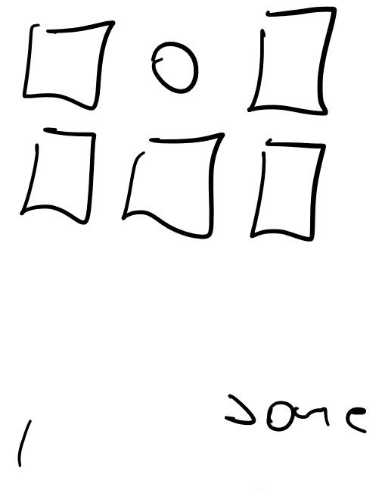
00 01
00 00

- all 0   1
- one 1   4
- two 1(any)   12

01
02 ×

0
01
012
0123

$\boxed{\cancel{0}1234}$



graph, some cells adj to 0
forced to be 0/1

# # #   0 1 2

# = 0/1
? = ≥0