

$U: (x, v)$
 $Q(a, b)$

6	7	1	2	4	3	5	1
---	---	---	---	---	---	---	---

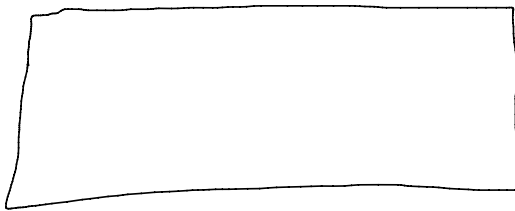
29

			x				
--	--	--	---	--	--	--	--

$$m = x \cdot \frac{n}{x}$$

$$\underbrace{x} + \underbrace{\frac{n}{x}} + \underbrace{x} = 2x + \frac{n}{x}$$

a



b

$$O(x + \frac{n}{x}) = O(\sqrt{n} + \frac{n}{\sqrt{n}}) = O(\sqrt{n})$$

$$a \cdot b = n \Rightarrow b = \frac{n}{a}$$

$$2(a+b) = \min n$$

$$f(a) = 2(a + \frac{n}{a})$$

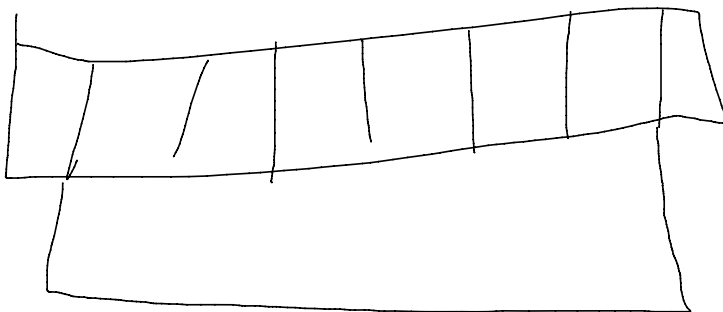
$$= a + \frac{n}{a}$$

$$f'(a) = 1 - \frac{n}{a^2} = 0$$

$$\frac{n}{a^2} = 1$$

$$n = a^2$$

$$a = \sqrt{n}$$



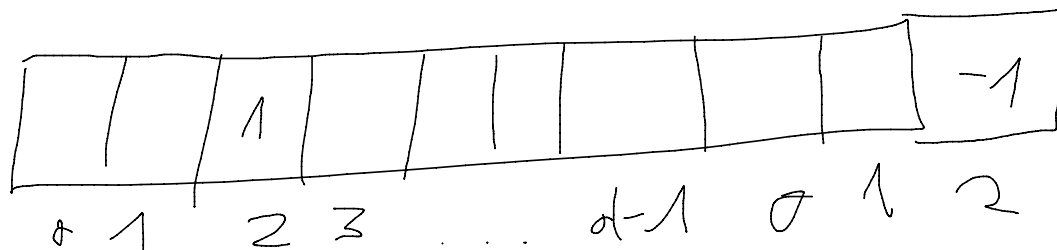


$$d > \sqrt{n}$$

a, b, d

$$d < \sqrt{n}$$

$a, a+d$



0 1 2 3 4 5 6 7 8 9

$$s[i] = s[i] + s[i - d]$$



