Rumus – Rumus Penting

PK

Eksponen

$a \times a \times a \times \dots \times a = a^x$

sebanyak x

$3 \times 3 = 3^2 \rightarrow 5 \times 5 \times 5 \times 5 = 5^4$

sebanyak 2

$\frac{2}{\sqrt{p}} = 1 \leftrightarrow 2 = \sqrt{p}$

$13 - (24 : p^{1/2}) = 13 - \frac{24}{\sqrt{p}} = 1$

$-\frac{24}{\sqrt{p}} = 1 - 13 \leftrightarrow \frac{24}{\sqrt{p}} = 12$

$$(a^x)^y = a^{x \cdot y}$$

$$a^x \cdot a^x \cdot a^x \cdot a^x \cdot \ldots \cdot a^x = (a^x)^y$$

sebanyak y

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

$$\sqrt{a^2} = a^{2 \,:\, 2}$$

$$\sqrt[2]{a} = a^{1/2}$$

$$16^{1/4} = \sqrt[4]{16} = \dots$$

$$\sqrt[n]{a^m} = a^{m/n}$$

X Merupakan Faktor dari N

Jika
- N bisa dibagi X
- X habis Membagi N
- N Merupakan kelipatan X

6 Merupakan Faktor 12

* $\frac{12}{6} = 2$ (bisa) → ya

* $12 \equiv 6 \times 2$ (Validi)

Max (5, 20) = 20

Max (15, y) = 20

y = ... ? → 20

Max (a, b) = c

a ≠ c → b = c

Max (7, b) = 25

a → 7

c → b = c → b = 25

Min (7, 19) = 7

Min (21, b) = 15 Karena 15 ≠ 21

b = 15

Max (21, a) = 21

a = ... → a ≤ 21

Max (21, 21) = 21 Max (21, 19) = 21

Max (21, 20) = 21

⋮

BSTA = Binary Search The Answer

1. x + 10 = 25, x = ... ?
   a. 11
   b. 12
   c. 13 →
   d. 14
   e. 15

c. $x = 13$ → $13 + 10 = 23$

hasilnya (=) Jawaban

a b c d e

c → hasil uji

$\sqrt{9}, \sqrt{16}$

$\sqrt{8} = 2$

hasil < ← $\sqrt{a} = a^{1/2}$

hasil > → $\sqrt{x} = x^{1/2}$

$\sqrt{8^{10}} = (8^{10})^{1/2} = 8^{10 \cdot \frac{1}{2}} = 8^5$