

0 1 1 2 3 5 8 13 21 - - -
G b

$$h = \underline{\underline{g}}^T \phi + \underline{\underline{\gamma}}_0$$

K34547

```
for(int i = 0; i < n; i++) {  
    int c = a + b;  
    a = b;  
    b = c;  
}  
cout(a)
```

$$\leftarrow = \underline{1} = \underline{0} + \underline{1}$$

$$\begin{aligned}a &= \boxed{1} \\b &= \boxed{1}\end{aligned}$$

$$C = \chi \gamma \delta \delta' \beta$$

$$a = 1 \times 389$$

$$b = 288 \cancel{8} \underline{13}$$

$$n = 5$$

$$\frac{1 \times 2 \times 3 \times 4 \times 5}{6 \quad 24 \times 5} = 120$$

GCD / HCF

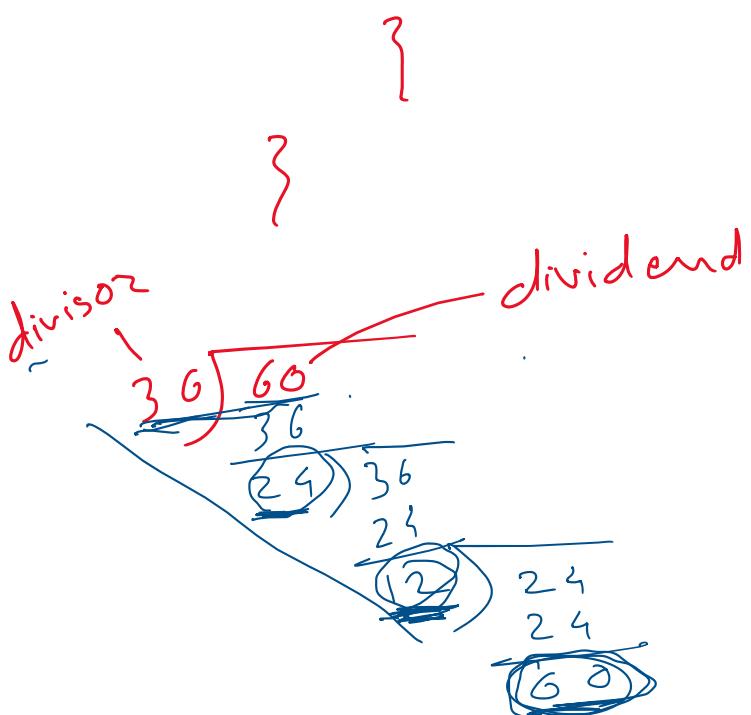
$$\begin{bmatrix} 1 & 2 \\ 6 \end{bmatrix} = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix}, \begin{pmatrix} 3 & 4 \\ 6 & -1 \end{pmatrix}, \begin{pmatrix} 6 & 1 \\ -1 & 2 \end{pmatrix}$$

GCD

```
fog (int i=1; i <= small; i++) {
```

if(a%i == 0 && b%i == 0){

$$GCD = 1$$



$$\begin{array}{r} 60 \\ 36 \\ 60 \\ \hline 36 \end{array}$$

$$\text{dividend} = 36$$

$$\text{divisor} = 60$$

$$(\text{dividend \% divisor} \neq 0)$$

while (dividend \neq 0) {

$$\underline{\text{sum}} = \text{dividend \% divisor}$$

$$\text{dividend} = \text{divisor}$$

$$\text{divisor} = \underline{\text{sum}}$$

$$\left(\begin{array}{l} 139 \% 2 = 0 \\ 189 \% 3 = 0 \end{array} \right)$$

$$2 \ 3 \ 3 \ 3 \ 7$$

$$\Rightarrow \begin{array}{r} 1 \\ | \\ 2 \\ | \\ 3 \\ | \\ 3 \\ | \\ 3 \\ | \\ 7 \end{array} \quad \begin{array}{r} n \\ 378 \% 2 = 0 \\ 189 \% n \\ 63 \% n \\ 21 \% n \\ 7 \% n \end{array}$$

$$\begin{array}{r} 63 + 63 + 63 \\ = 189 \end{array}$$

$i < n$

$i < n$

$\text{if } (n \% i == 0) \}$