

$$\begin{array}{r}
 123 \leftarrow a[] \\
 456 \leftarrow b[] \\
 + \\
 \hline
 579 \leftarrow c[]
 \end{array}$$

input 123 → a[]

char s[10]
scanf("%s", s);

a	0	1	2	3
	1	2	3	

int s;
scanf("%d", &s);

(s[0]) s[1] ... s[9]

int a[10];

for (int i=1; i<=n; i++)

scanf("%d", a+i);

(s) ↑

(a[i]) ↓

{a[i]}

a+i

scanf → C
cin → C++

char s[10];
scanf("%s", s);

(cin >> s);

char 123

s	[0]	[1]	[2]
	1	2	3

↑ ↑

int

a	0	1	2	3
		1	2	3

int + (s[i-1])

~~for (i=1; i<=strlen(s); i++) a[i] = s[i-1] - 48;~~

隐式转换

strlen(s)

ascii 0 ~ 12

'0' - '9'

48 ~ 57

$a \in \text{'0' - '9'}$

$a - 48$ \rightarrow int

a	0	1	2	3
		1	2	3

b	0	1	2	3
			4	5
				6

c	0	1	2	3
		5	7	9

$a[3] + b[3]$
 $a[2] + b[2]$
 $a[1] + b[1]$

59

~~for (int i=1; i<=3; i++)~~
~~count << c[i];~~
~~if (c[0] > 0) count << c[0];~~

459
 x 372

a	0	1	2	3
---	---	---	---	---

b	0	1	2	3
---	---	---	---	---

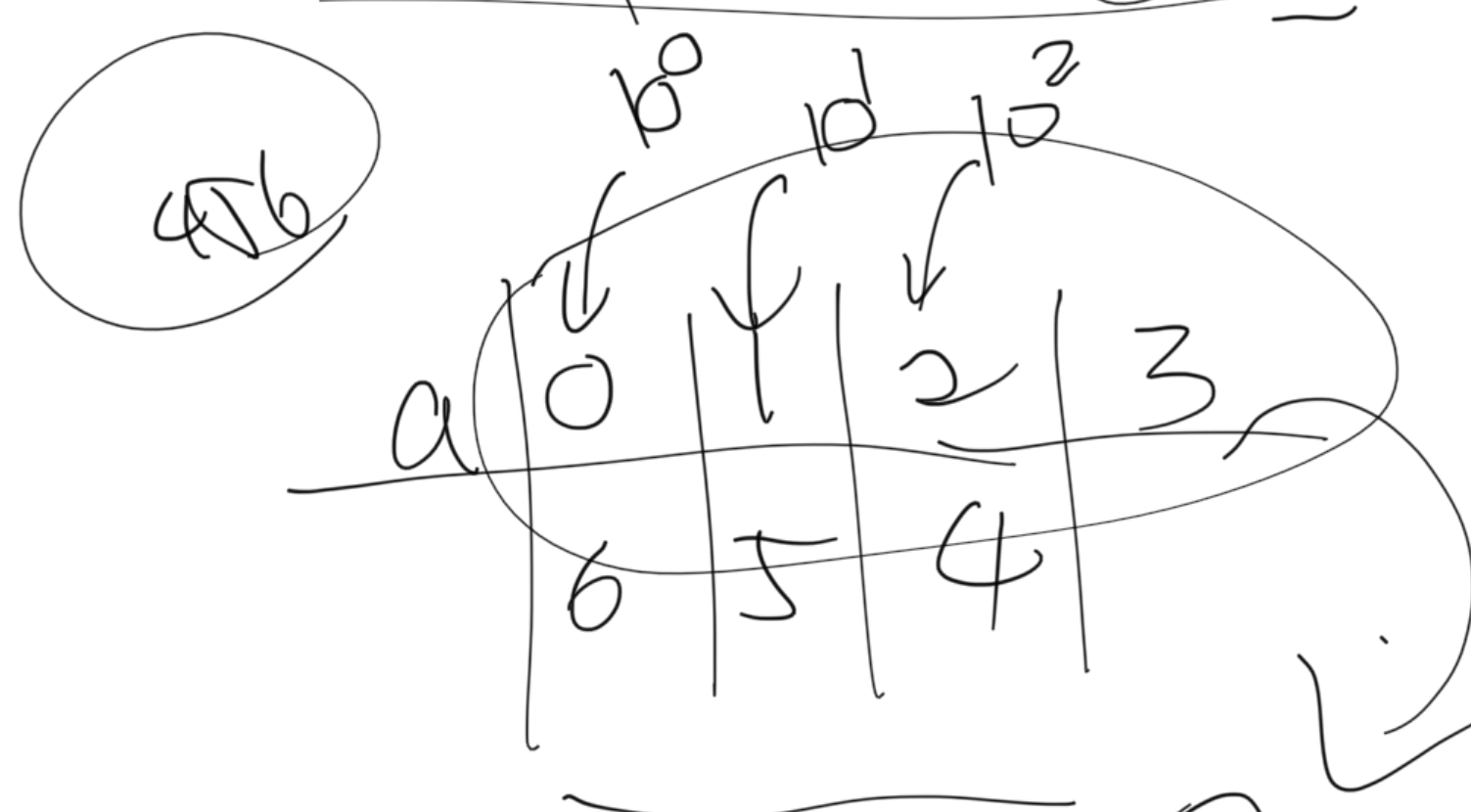
~~$c[i] = a[i] + b[i]$~~
~~if ($c[i] > 9$)~~
 ~~$d[i] = 1$~~
 ~~$c[i] -= 10;$~~

$c[i] = a[i] + b[i] + d[i+1]$
 if ($c[i] > 9$)
 $d[i] = 1$
 $c[i] -= 10;$
 if ($d[i] = 1$)
 $c[0] = 1;$

4	0	9
---	---	---

7	7	2
---	---	---

C	0	1	2	3
	1	2	3	1
			1	1



$456 = 4 \times 10^2 + 5 \times 10^1 + 6 \times 10^0$

astr	a	0	1	2	3
		3	2	1	

bstr	b	0	1	2	3
		6	5	4	

c	0	1	2	3
		9	7	5

$\rightarrow c[i] = a[i] + b[i]$

$(0 \leq i \leq \text{maxl}-1)$

$\text{maxf} = \max(\text{strlen}(\text{astr}), \text{strlen}(\text{bstr}))$

maxf maxf+1

3 4

426
+ 779

205

a	0	1	2	3
	6	5	4	

b	0	1	2	3
	9	7	7	

c	0	1	2	3
	15	12	11	1

→ for (int i=0; i < maxf; i++)
 $c[i+1] += c[i] / 10;$
 $c[i] \% = 10;$

→ if (c[maxf] > 0) maxf++;

→ for (int i = maxf - 1; i >= 0; i--)
 count << c[i];

	0	1	2	3
a	6	5	4	
b	9	7	7	
c	5	1		

$$c[i] = a[i] + b[i]$$

$$c[i] += a[i] + b[i]$$

a	3	2	1	0
	1	2	3	4
b	3	2	1	0
	0	0	1	6

$$c[0] += a[0] \times b[0]$$

$$c[1] += a[1] \times b[0]$$

$$c[2] += a[2] \times b[0]$$

$$c[2] += a[1] \times b[1]$$

$$c[3] += a[0] \times b[2]$$

6	12	18	24
10	15	20	

$c[2] += u$
0.

$$c[i] = \begin{aligned} & a[0] \times b[i] \\ & + a[1] \times b[i-1] \\ & + a[2] \times b[i-2] \\ & \vdots \\ & + a[i] \times b[0] \end{aligned}$$