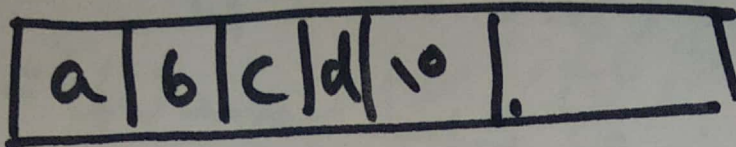


31/8

Any character array ending with
'\0' is a string.

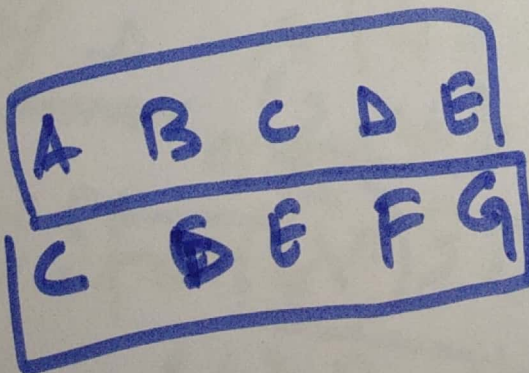
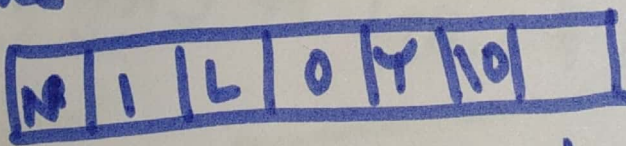


abcd \rightarrow string \rightarrow ??

various operation
which can be
done on a string.

scanf("%s", name); NILOY

name



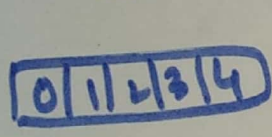
fort

```

scanf("%s" name);
for (i=0; i != '\0'; i++)
{
    a[i] = a[i] + 2;
}
printf("%s", name);

```

n = 10



i, MALAYALAM

A M A N A P L A N A C A N A L P A N A M A

```

(*) → scanf("%s", name);
    while (i < (n/2))
    {
        if (a[i] != a[n-1-i])
        {
            flag = break;
            i++;
        }
        if (!flag)
            printf("%s is a palindrome", s);
        else
            printf("%s is not a palindrome", s);
    }

```


mult (int a[]; int n)

{
for (i=0; i < n; i++)

4
7 | 6 | 7 | 8 | 3 | 2

↓ ↓ ↓ ↓ ↓ ↓
5 4 3 2 1 0

5

3

{ int count; a[100], n; b[100];
scanf ("%d", &n);

for (i=0; i < n; i++)
scanf ("%d", &count);
for (i=0; i < n; i++)
scanf ("%d", &a[i]);

* with the restriction
that every input
is 1 digit

147623147

rem = 0;
for (i=0; i < n; i++)

{ mult = (10 * a[i] + rem);
b[i] = mult % 10;
rem = mult / 10;

→ If (rem > 0)

{ b[i] = rem;
n = n + 1;

```

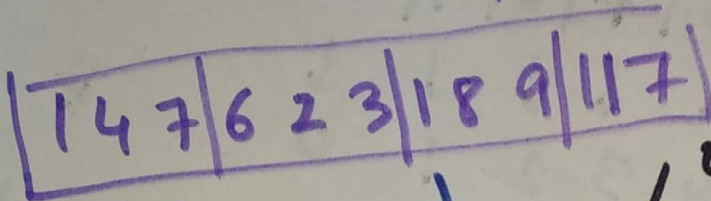
    * for (i=0; i < a[i] != '0'; i++)
        count
  
```

```

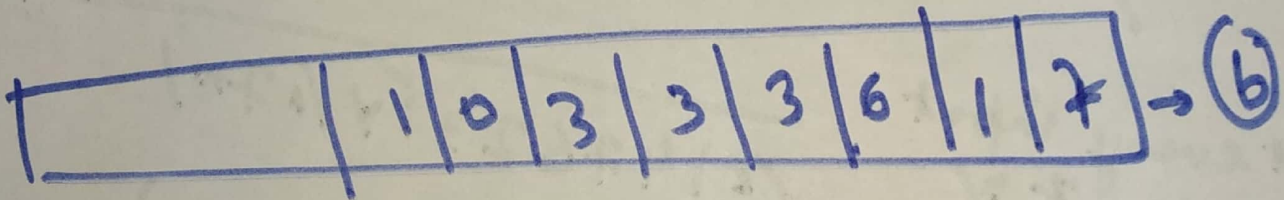
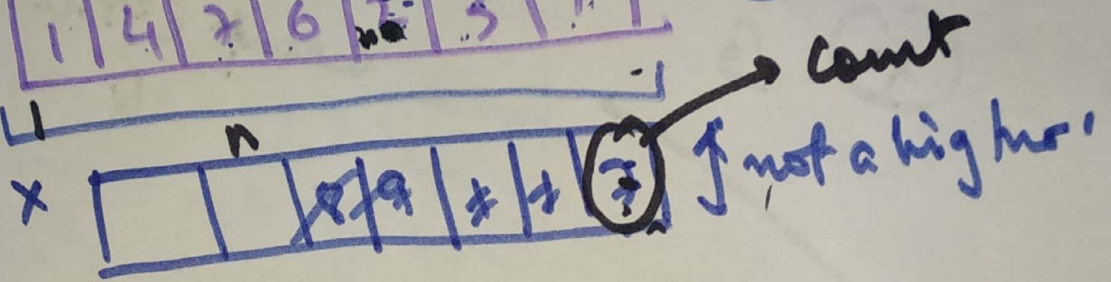
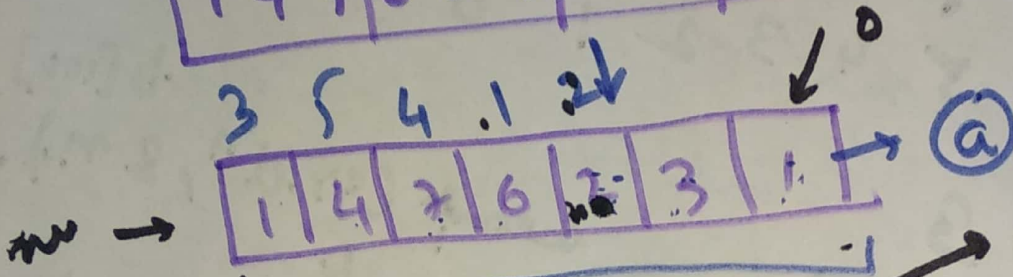
    for (i=0; a[i] != '0'; i++);
    n = i;
  
```

Google → Goo90L

↓
10¹⁰⁰



3 5 4 . 1 2 ↓



$$\text{mult}[i] = (\text{no} * a[i] + \text{rem}) \% 10$$

$$\text{rem} = \text{no}$$

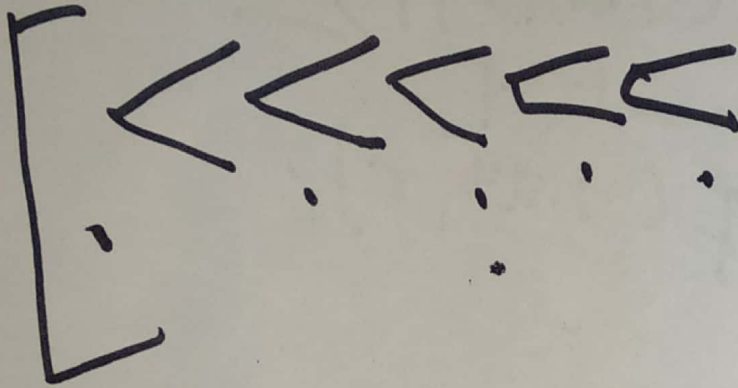
$$b[i] = \text{mult} \% 10$$

$$\text{rem} = \text{mult} / 10$$

Stack structure.

~~FIFO~~ LIFO

Stack of dishes



135

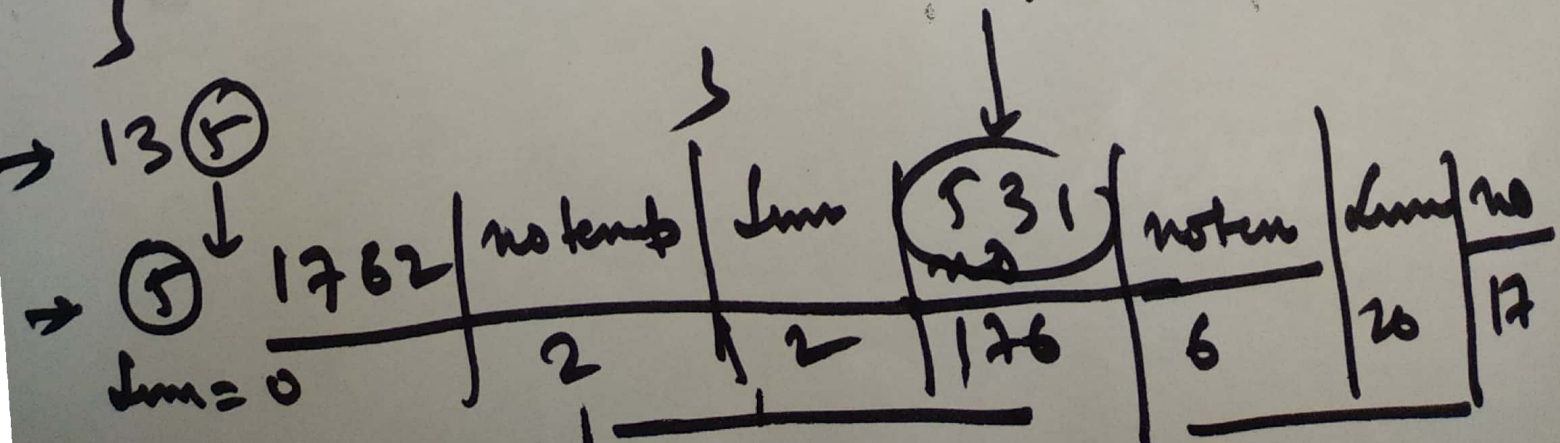
+ int no.

```

int main
{
    int no, no1;
    scanf("%d", &no);
    no1 = reverse(no);
    printf("%d", no1);
}
    
```

```

int reverse (int no)
{
    int sum = 0;
    while (no > 0)
    {
        int notemp = no % 10;
        sum = sum * 10 + notemp;
        no = no / 10;
    }
    return sum;
}
    
```



main ().

```
{ int r;
```

```
printf ("d" &r);
```

```
10* ← printf ("d", r);
```

```
r = increment (r);
```

```
- printf ("d", r);
```

```
↓
```

~~void increment~~
^{int} (int r)

```
{ r++;  
return r;
```

~~10*~~
11