9 Mar, 2023

Homework for Mar 8th :

```
12          for(i=0;i<=(n-1);i++)
13              a[i] = sc.nextInt();
14
15          System.out.println("Array contents are as below:");
16          for(i=0;i<=(n-1);i++)
17              System.out.println(a[i]);
18
19          int sum_even_places=0, sum_odd_places=0;
20
21          for(i=0;i<=(n-1);i+=2)
22              sum_even_places += a[i]; // sum = sum + a[i];
23          System.out.println("Sum of the array's even elements is as below:");
24          System.out.println(sum_even_places);
25
26          i = 1;
27          while (i<=n-1)
28          {
29              sum_odd_places += a[i];
30              i = i+2;
31          }
32          System.out.println("Sum of the array's odd elements is as below:");
33          System.out.println(sum_odd_places);
34      }
35  }
36
```

n=8

i=0 2 4 6 8

sum_even_places = 0 + 10 + 30 + 50 + 70

a | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
0 1 2 3 4 5 6 7

i = 1, 3, 5, 7, 9

sum_odd_places = 0 + 20 + 40 + 60 + 80

Ln 33, Col 42 Spaces: 4 UTF-8 LF {} Java

//WAP to check if integer array is in Ascending Order.

(1)

a

0	1	2	3	4
10	20	30	40	50

n=5

a

0	1	2	3	4
10	20	30	50	40

✗

① Cmp 10 & 20

If 10 < 20, then Cmp 20 & 30

If 20 < 30, then Cmp 30 & 40

If 30 < 40, then Cmp 40 & 50

If 40 < 50, stop.

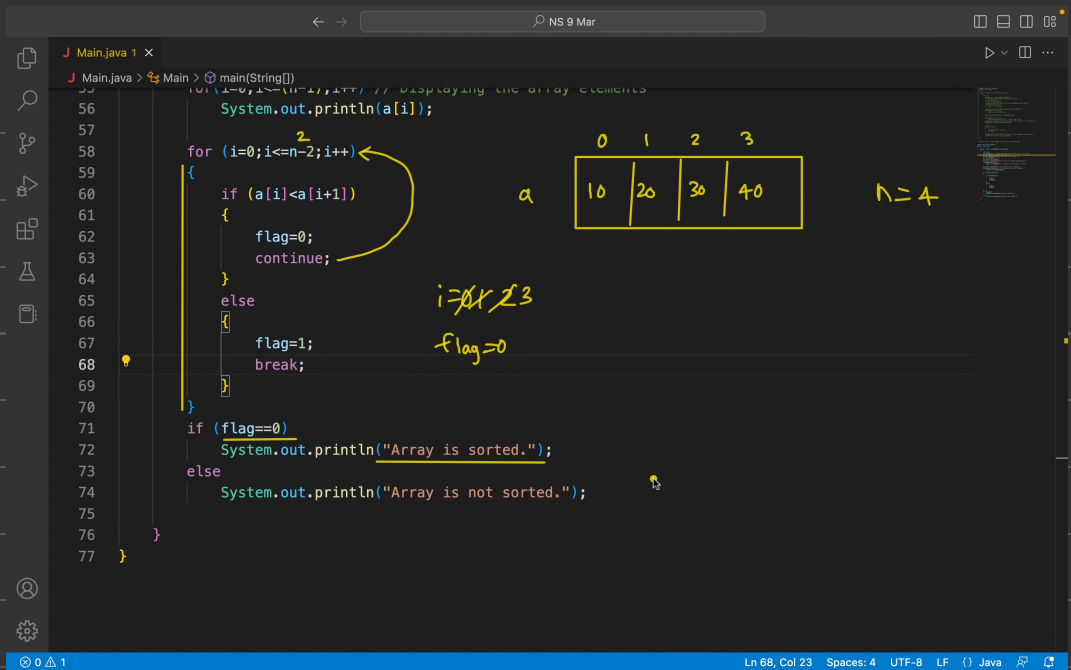
Ascending

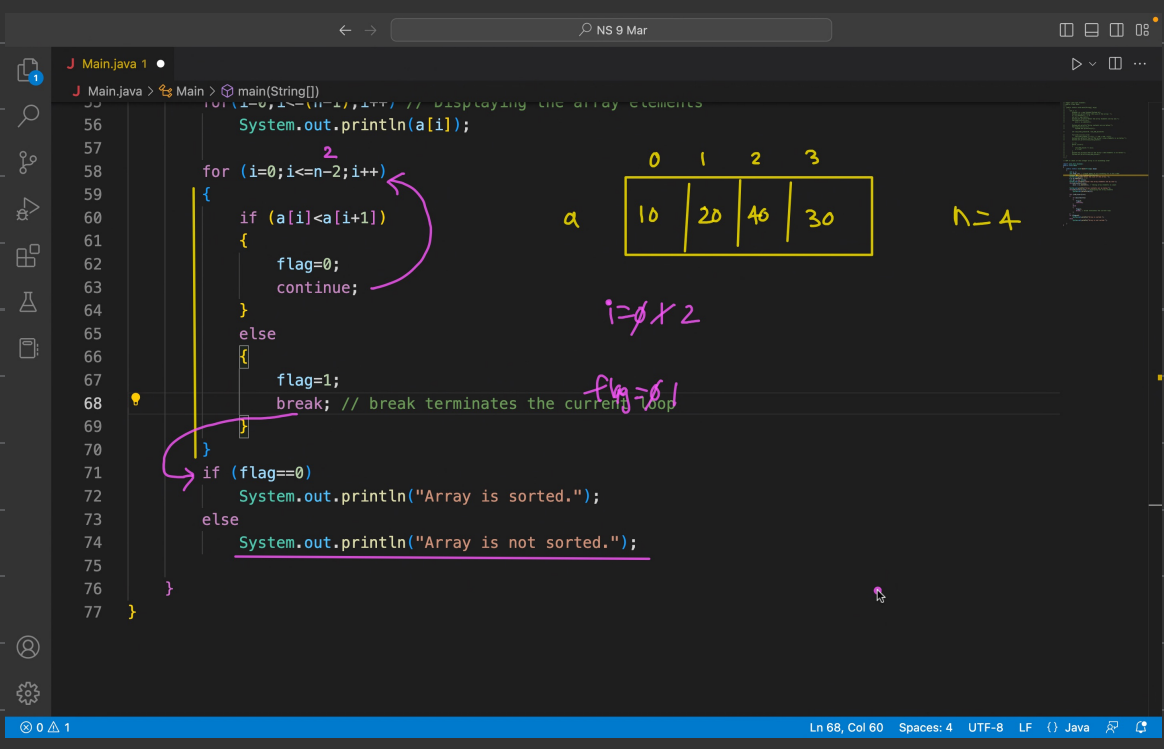
Rpt this till $i = n-2$

If condition fails anytime, then break loop & conclude not in Asc. ord.

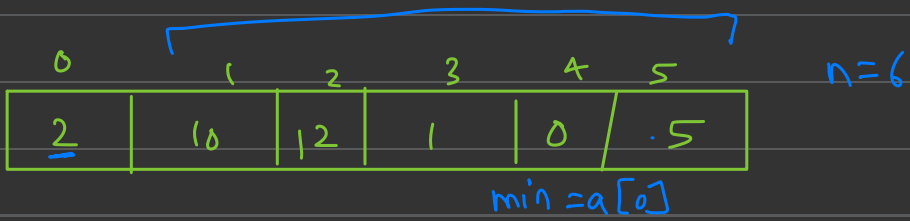
```
flag=0
for(i=0; i<=n-2; i++)
    if a[i] <a[i+1]
        flag=0
        continue
    else
        flag=1
        break

if flag==0:
    Asc.
else
    Not Asc.
```


NS 9 Mar
Main.java 1
Main.java > Main > main(String[])
System.out.println(a[i]);
for (i=0;i<=n-2;i++)
{
if (a[i]<a[i+1])
{
flag=0;
continue;
}
else
{
flag=1;
break;
}
}
if (flag==0)
System.out.println("Array is sorted.");
else
System.out.println("Array is not sorted.");
}
}
0 1 2 3
a
10 20 30 40
n=4
i=0 1 2 3
flag=0
0 ⚠ 1
Ln 68, Col 23 Spaces: 4 UTF-8 LF Java


NS 9 Mar
Main.java 1
Main.java > Main > main(String[])
System.out.println(a[i]);
for (i=0;i<=n-2;i++)
{
if (a[i]<a[i+1])
{
flag=0;
continue;
}
else
{
flag=1;
break; // break terminates the current loop
}
}
if (flag==0)
System.out.println("Array is sorted.");
else
System.out.println("Array is not sorted.");
}
}
0 1 2 3
a
10 20 40 30
n=4
i=0 1 2
flag=0
0 ⚠ 1
Ln 68, Col 60 Spaces: 4 UTF-8 LF Java

WAP to find min in the array.



min = a[0] i.e. 2

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

if min > a[i]

min = a[i]

if min > a[1] i.e. 10

2

then min = a[1]

Sopln (min)

If min > a[2] i.e. 12

2

then min = a[2]

If min > a[3] i.e. 1

2

then min = a[3] = 1

If min > a[4] i.e. 0

1

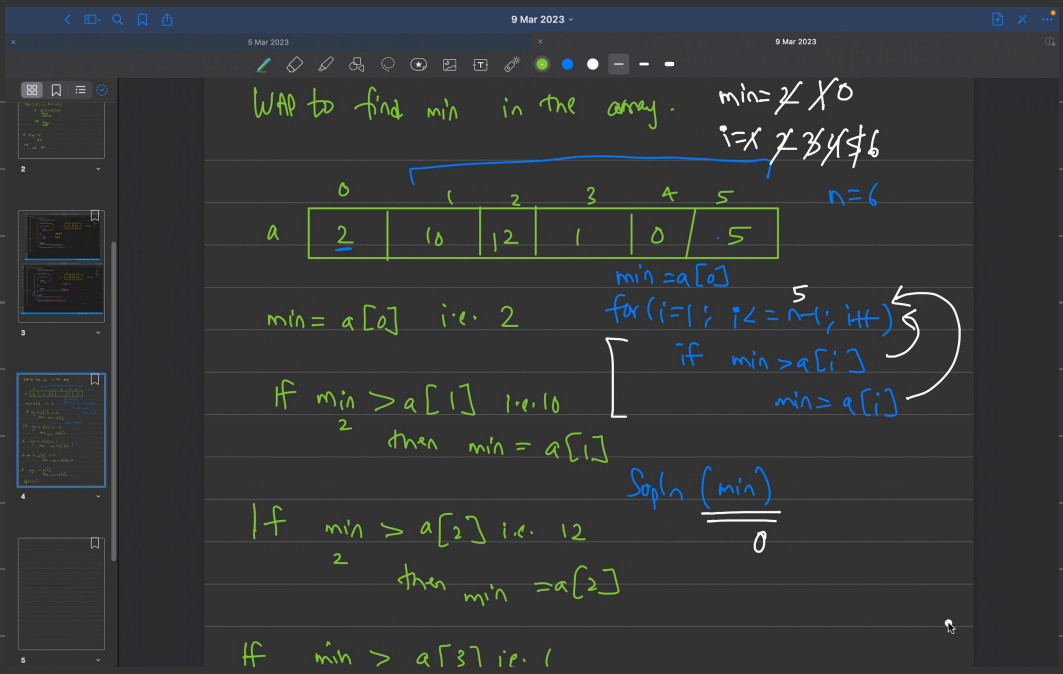
then min = a[4] = 0

If min > a[5]

0

then min = a[5]

Sopln(min)


9 Mar 2023
5 Mar 2023
9 Mar 2023
WAP to find min in the array.
min= ✗ ✗ 0
i= ✗ ✗ 3 4 5 6
0 1 2 3 4 5
n=6
a 2 10 12 1 0 5
min = a[0] i.e. 2
min = a[0]
for(i=1; i<=n-1; i++)
if min > a[i]
min = a[i]
If min > a[1] i.e. 10
then min = a[1]
If min > a[2] i.e. 12
then min = a[2]
If min > a[3] i.e. 1
Sopln (min)
0

2D Arrays

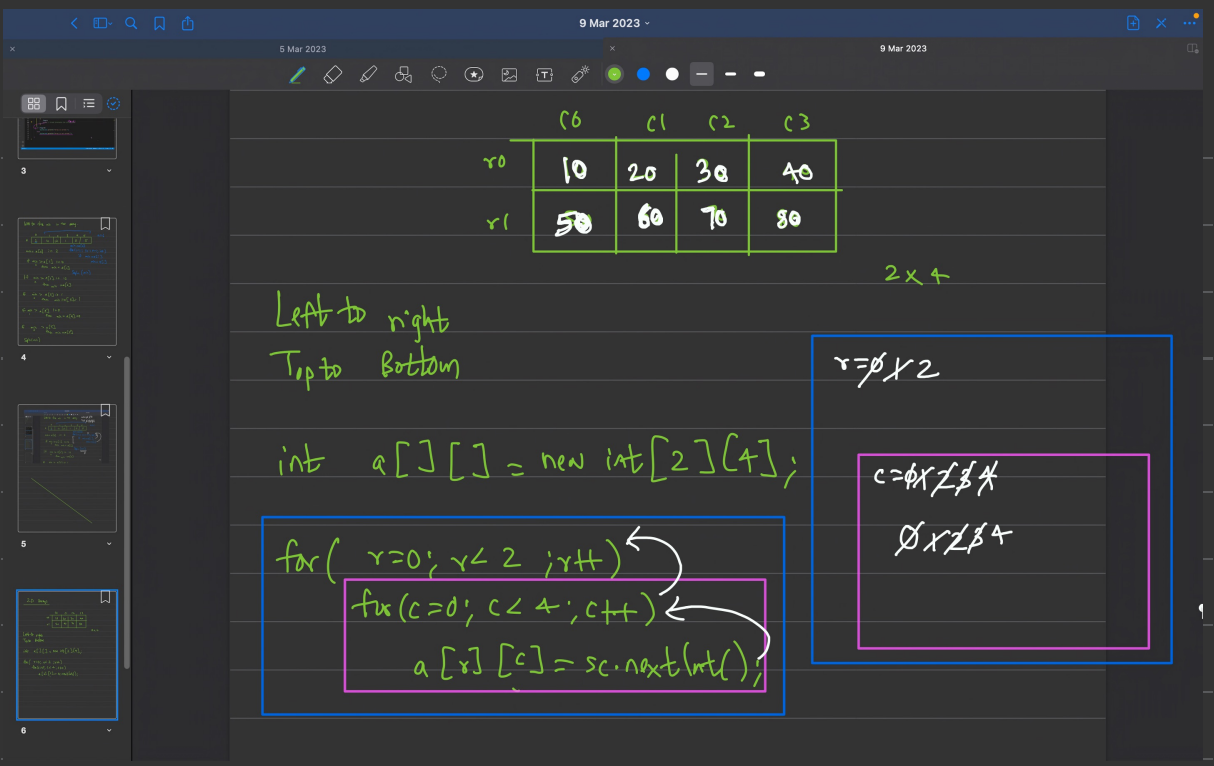
	c0	c1	c2	c3
r0	10	20	30	40
r1	50	60	70	80

2 x 4

Left to right
Top to Bottom

```
int a[][] = new int[2][4];

for( r=0; r< 2 ;r++)
    for(c=0; c< 4; c++)
        a[r][c] = sc.nextInt();
```



Hw:

1. Implement min of array pgm.
2. —"— max —"— .
3. —"— above 2D array pgm.

—— X ——