

Code 1:

```
a=[]
```

```
n= int(input())
```

```
for i in range(n):
```

```
    l=list(map(str , input().split()))
```

```
    a.append(l)
```

```
k=[]
```

```
res = 0
```

```
for i in range(n):
```

```
    for j in range(n):
```

```
        if(a[i][j] == 'w'):
```

```
            k.append((i,j))
```

```
            res = 1
```

```
            break
```

```
        if (res == 1):
```

```
            break
```

```
# print(k)
```

```
if len(k) != 0:
```

```
    n1=k[0][1]
```

```
    c=0
```

```
    for i in range(n):
```

```
        if a[n1][i] == 'w':
```

```
c+=1
```

```
k.append(c) #width
```

```
c1=0
```

```
m=k[0][0]
```

```
for j in range(n):
```

```
if a[j][m] == 'w':
```

```
c1+=1
```

```
k.append(c1)# height
```

```
print("The co-ordinates of top-left corner are", k[0])
```

```
print("The width of the input array is ",k[1])
```

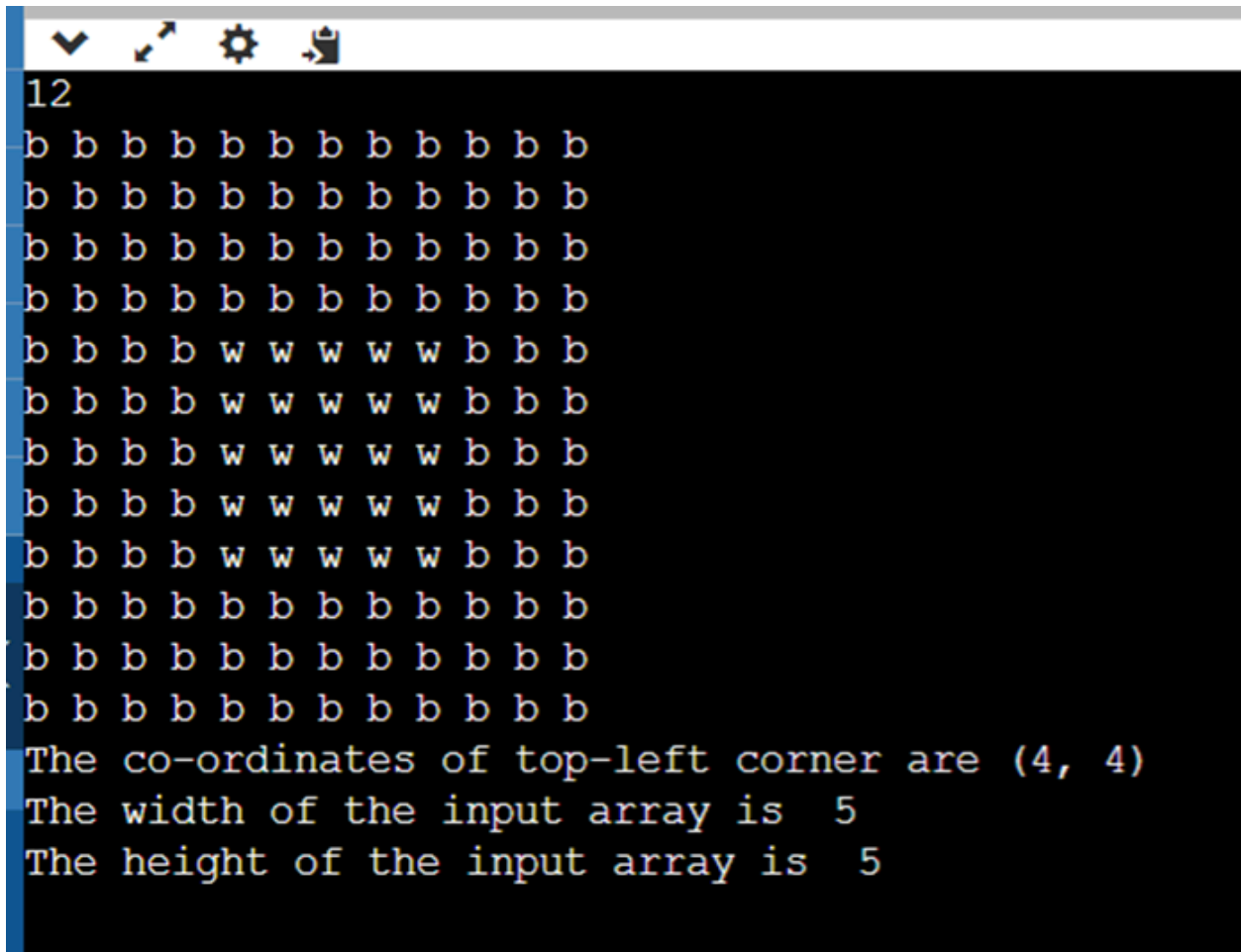
```
print("The height of the input array is ",k[2])
```

```
# print(k)
```

```
else:
```

```
print("the list is empty")
```

Output:



```
12
b b b b b b b b b b b b
b b b b b b b b b b b b
b b b b b b b b b b b b
b b b b b b b b b b b b
b b b b w w w w w b b b
b b b b w w w w w b b b
b b b b w w w w w b b b
b b b b w w w w w b b b
b b b b w w w w w b b b
b b b b b b b b b b b b
b b b b b b b b b b b b
b b b b b b b b b b b b
The co-ordinates of top-left corner are (4, 4)
The width of the input array is 5
The height of the input array is 5
```

Code 2:

```
print("enter the input array")
l= list(map(int,input().split()))
k=[]
for i in range(len(l)-1):
    if l[i+1] == 0:
        continue
    k.append(l[i]//l[i+1])
```

```
if len(k)!=0:
```

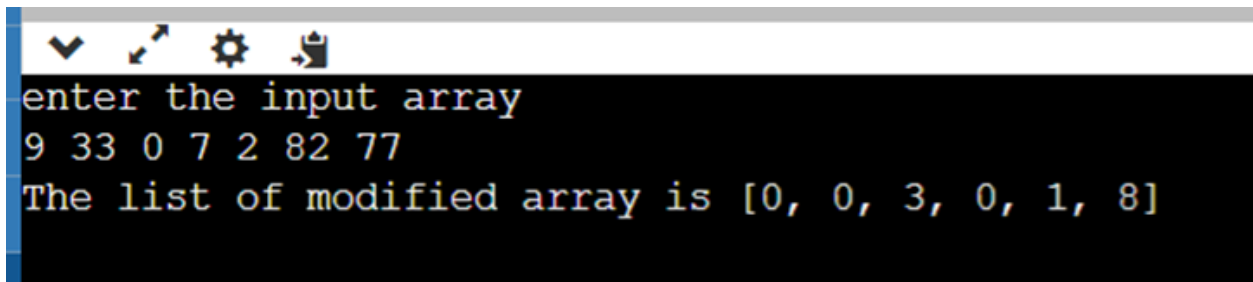
```
    if l[0] == 0:
```

```
        print("The list of modified array is", k)
```

```
    else:
```

```
        k.append(l[-1]//l[0])
```

```
        print("The list of modified array is", k)
```



```
enter the input array
9 33 0 7 2 82 77
The list of modified array is [0, 0, 3, 0, 1, 8]
```

Code 3:

```
s = input()
```

```
k=0
```

```
last = -1
```

```
for i in s:
```

```
    if i.isdigit():
```

```
        res = int(i)
```

```
        if res%3 == 0:
```

```
            k+=res
```

```
            last = res
```

```
print("The sum of values divisible by 3 are", k)
```

```
if last == -1:

    print("there is no number that divisible by 3")

else:

    print("The last number that is divisible by 3 is",last)
```

```
The best 6 of 8 will get 9 points
The sum of values divisible by 3 are 15
The last number that is divisible by 3 is 9
```

Code 4:

```
l=[0]*100

for i in range(100):

    l[i]=i+1

while(len(l)>1):

    l=l[0::2]

    print(l)

print("The final member who can survive is" ,l[0])
```

```

[1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69,
71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99]
[1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41, 45, 49, 53, 57, 61, 65, 69, 73, 77, 81, 85, 89, 93, 97]
[1, 9, 17, 25, 33, 41, 49, 57, 65, 73, 81, 89, 97]
[1, 17, 33, 49, 65, 81, 97]
[1, 33, 65, 97]
[1, 65]
[1]
The final member who can survive is 1

```

Code 5:

-- Hotels Table

```

CREATE TABLE Hotels (
    hotel_id INT PRIMARY KEY,
    hotel_name VARCHAR(255),
    other_hotel_details VARCHAR(255)
);

```

-- Menus Table

```

CREATE TABLE Menus (
    menu_id INT PRIMARY KEY,
    hotel_id INT,
    menu_name VARCHAR(255),
    other_menu_details VARCHAR(255),
    FOREIGN KEY (hotel_id) REFERENCES Hotels(hotel_id)
);

```

-- Food Items Table

```

CREATE TABLE FoodItems (
    food_item_id INT PRIMARY KEY,
    food_item_name VARCHAR(255),
    other_food_item_details VARCHAR(255)
);

```

-- Menu-Food Items Relationship Table

```

CREATE TABLE MenuFoodItems (
    menu_id INT,
    food_item_id INT,
    FOREIGN KEY (menu_id) REFERENCES Menus(menu_id),
    FOREIGN KEY (food_item_id) REFERENCES FoodItems(food_item_id),
    PRIMARY KEY (menu_id, food_item_id)
);

```