

написать бинарный поиск через рекурсию

```
a=[1,1,1,2,2,3,3,4,5,6,8,90,99,99,999,1000]
def binsearch(a,start,finish,find):
    x=a[(start+finish)//2]
    if x>find:
        binseach(a,start,(start+finish)//2,find)
    elif x<find:
```

```
        binseach(a,(start+finish)//2,finish,find)
    else:
        return 1
```



```
a=[1,1,1,2,2,3,3,4,5,6,8,90,99,99,999,1000]
def binsearch(a,start,finish,find):
    if finish-start>1:
        x=a[(start+finish)//2]
        print(x,find)
        if x>find:
            return binsearch(a,start,(start+finish)//2,find)
        elif x<find:
            return binsearch(a,(start+finish)//2,finish,find)
        else:
            return 1
    else:
        if find==a[finish] or find==a[start]:
            return 1
        else:
            return 0
find=int(input())
start=0
finish=len(a)-1
if binsearch(a,start,finish,find)==1:
    print("YES")
else:
    print("NO")
```

```
a=[1,1,1,2,2,3,3,4,5,6,8,90,99,99,999,1000]
def binsearch(a,start,finish,find):
    x=a[(start+finish)//2]
    print(x,find)
    if find==a[start] or find==a[finish]:
        return 1
    elif (start+finish)//2==start or
(start+finish)//2==finish:
        return 0
    elif x>find:
        return binsearch(a,start,(start+finish)//2,find)
    elif x<find:
        return binsearch(a,(start+finish)//2,finish,find)
    else:
        return 1
find=int(input())
start=0
finish=len(a)-1
if binsearch(a,start,finish,find)==1:
    print("YES")
else:
    print("NO")
```

функция - мастерская, которая
принимает заказы
после этого:
1)выполнить заказ
2)выполнить и отправить отчет