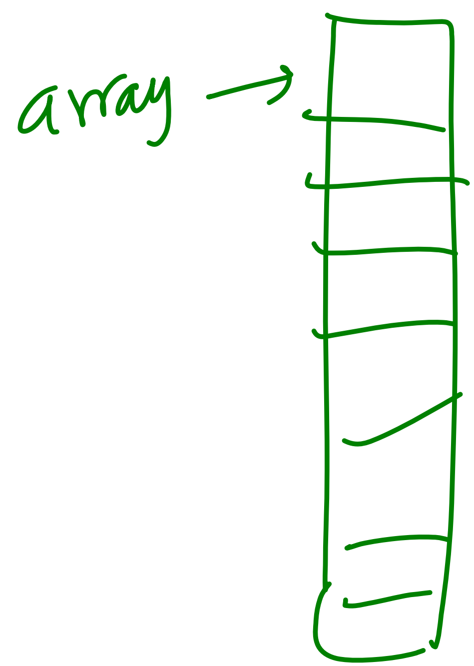
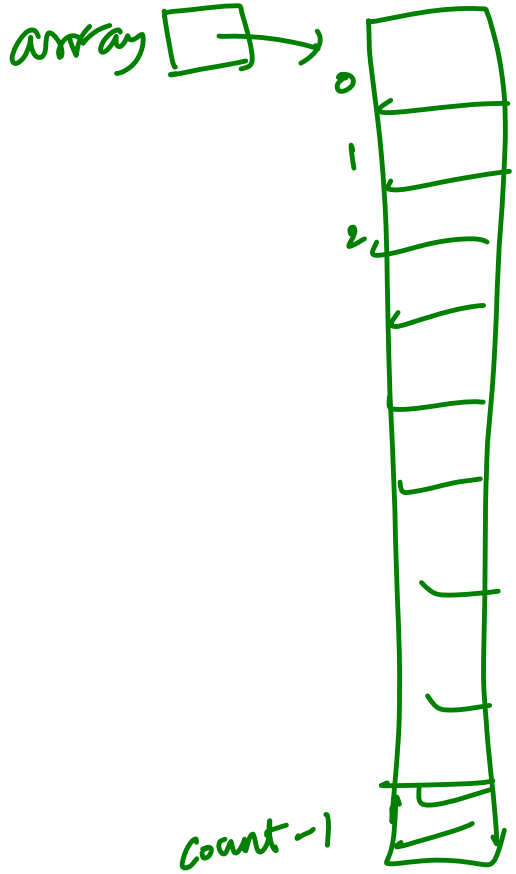
Note Title 8/14/2012

int array[] = { _, _, _, _, _, _, _ . };



```
int array[];

array = new int [count];
```



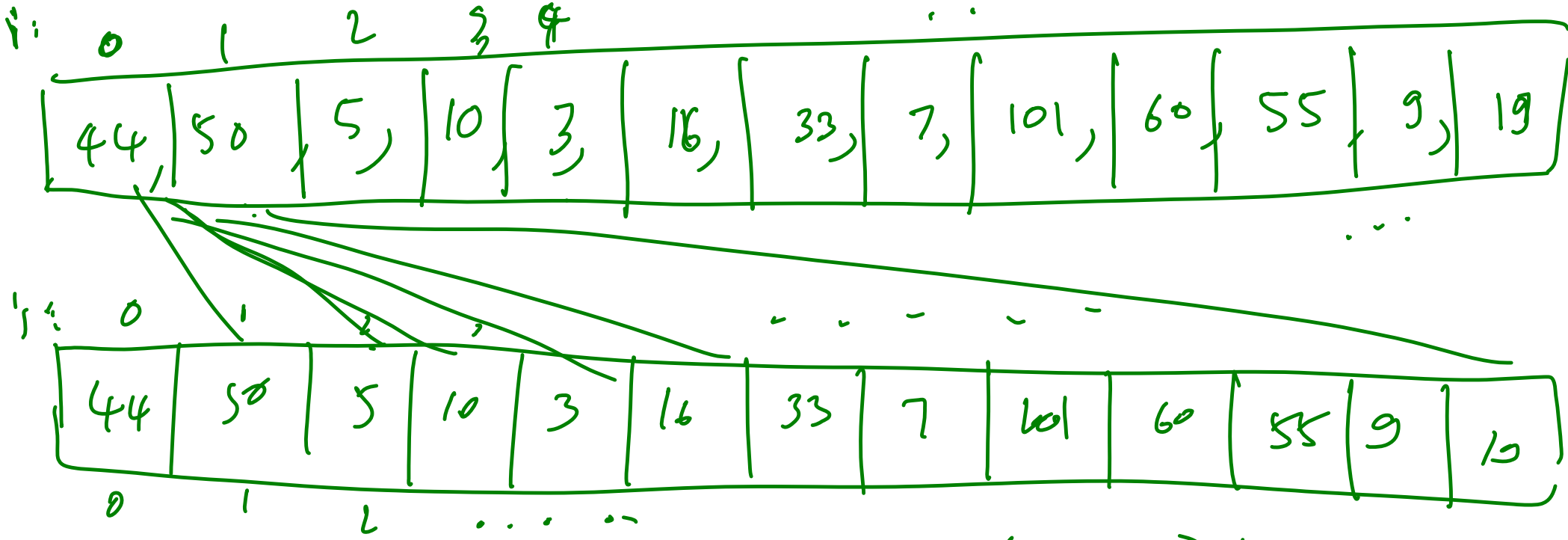
User enters 50

open file

read one transaction

check

10
20
25
35
45
51 ←
56
61
⋮



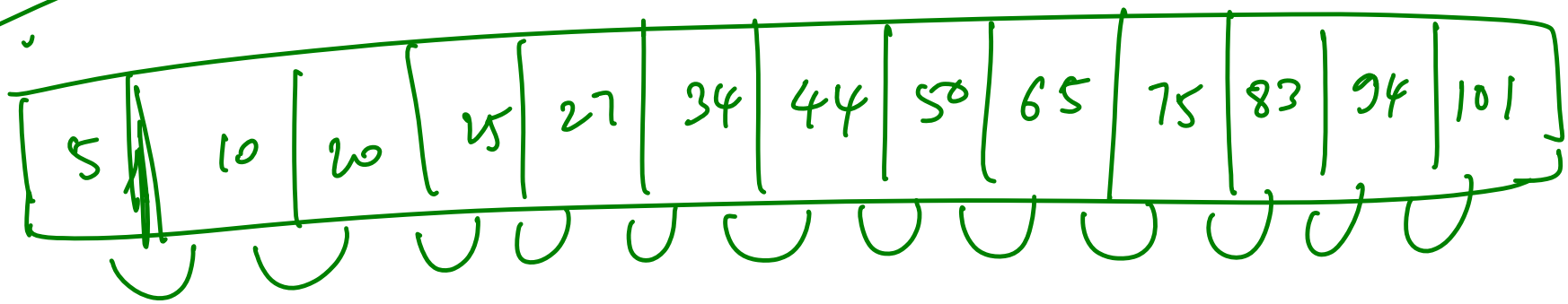
= Math.abs(x - y);

n items

$(n-1) + (n-2) + (n-3) + (n-4) + \cdots 1 = \frac{(n-1)n}{2}$

$= O(n^2)$

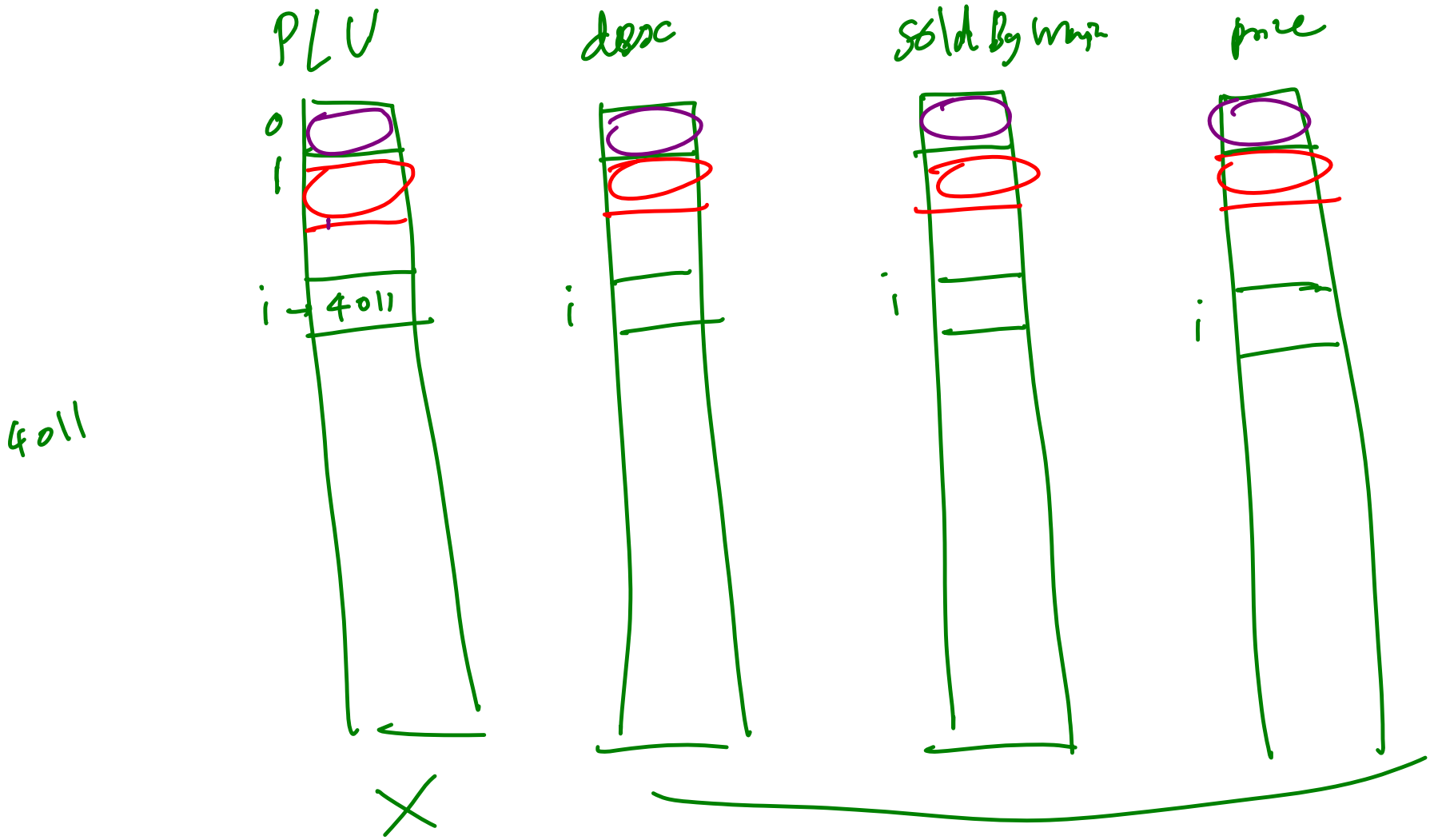
Sorted



$(n-1)$ comparisons

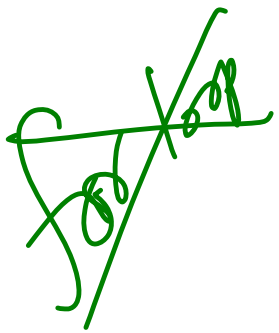
$\therefore O(n)$

```
plu = input.nextInt();
desc = input.next();
selestyp = input.nextInt();
price = input.nextDouble();
```

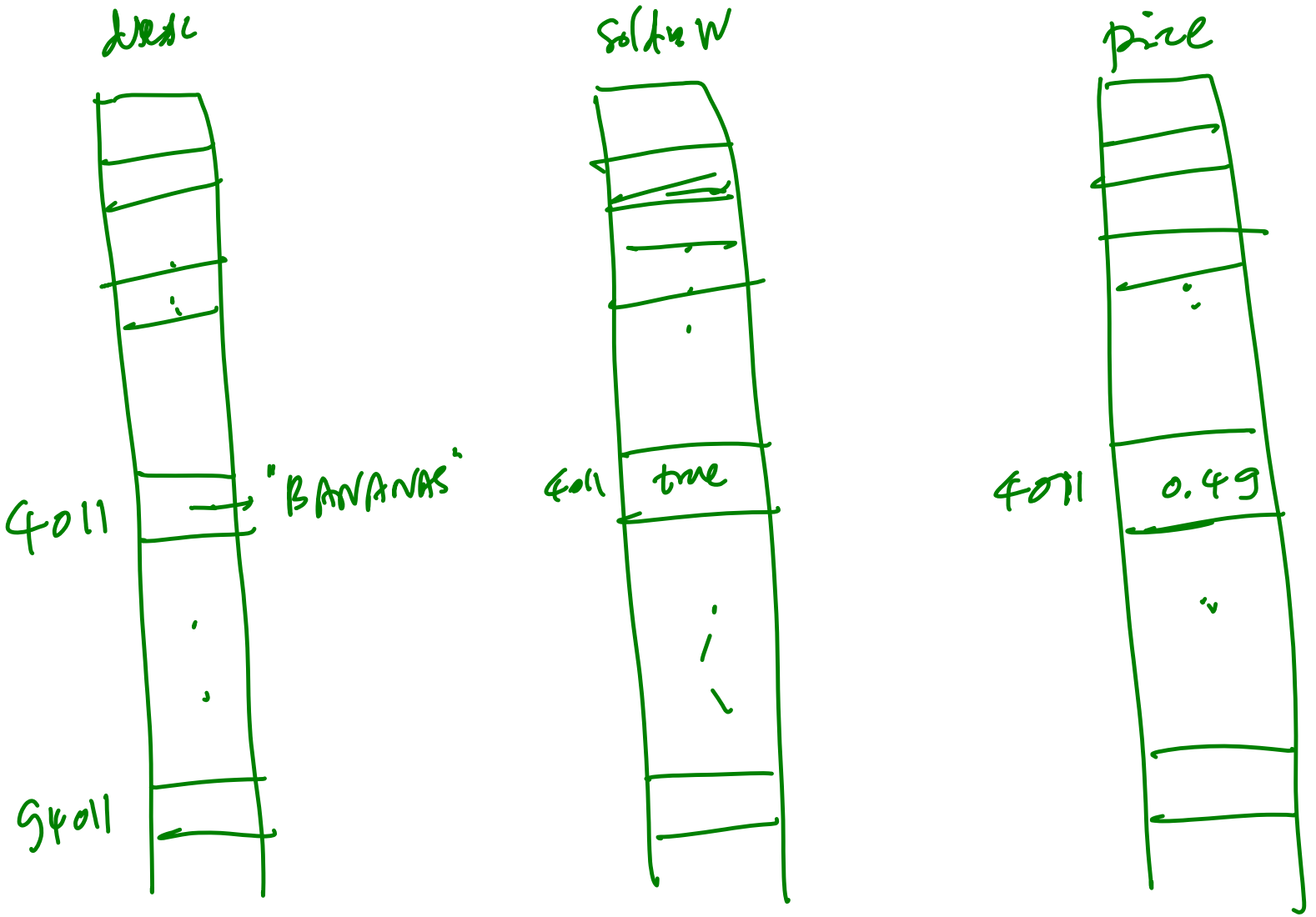

PLU
desc
Sold By Mgr
price
0
1
i
4011
i
i
i
4011

if (desc[selection] == null)

Invalid PLU



MAX → 100000


"BANANAS"
null
null
true
0.49