

# Sales Data IPO chart and Algorithm

## IPO Chart

Input	Process	Output
Enter each month of sales data	Prompt user for sales data	Display 1st, 2nd, 3rd, 4th, total, monthOfHighest, highest
	FOR loop to initialize each element of array with users input	Display good bye message
	CALCULATE firstQt, secondQt, thirdQt, fourthQt	
	FOR loop calculate total (all elements of array)	
	FOR loop calculate if (highest < salesArray[i]) highest = salesArray[i] monthOfHighest = (i+1)	

## Algorithm

### CLASS Main

DECLARE INITIALIZE MONTHS\_IN\_YEAR = 12

### Main Method

DECLARE INITIALIZE salesArray[MONTHS\_IN\_YEAR] ,  
firstQt, secondQt, thirdQt, fourthQt, total, highest,  
monthOfHighest = 0

DECLARE instantiating Scanner Object

FOR loop (int i = 0; i < salesArray.length; i++)

INITIALIZE each element of salesArray[] with users input  
( salesArray[i] = scan.nextDouble(); )

END

CALCULATE firstQt = salesArray[0] + [1] + [2] , secondQt =

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salesArray[3] + [4] + [5] , thirdQt = salesArray[6] + [7] + [8] ,  
fourthQt = salesArray[9] + [10] + [11]
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FOR loop (int i = 0; i < salesArray.length; i++)
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    CALCULATE total ( total += salesArray[i]; )
```

```
END
```

```
FOR loop (int i = 0; i < salesArray.length; i++)
```

```
    CALCULATE highest, monthOfHighest
```

```
    if(highest < salesArray[i]){
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        highest = salesArray[i];
```

```
        monthOfHighest = (i+1);
```

```
    }
```

```
END
```

```
OUTPUT firstQT, secondQt, thirdQt, fourthQt, total,  
monthOfHighest, highest
```

```
CLOSE Scanner object
```

```
END of Main Method
```

```
END of CLASS Main
```