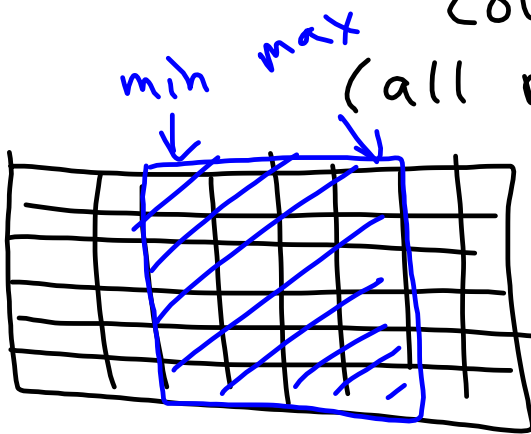


same arr

meth: getMultColTotal

return sum of entries

from column min to
column max, inclusive
(all rows)



```

total ← 0
algorithm
for columns c = min through max
    for all rows r
        total ← total + arr[r][c]
return total
    
```

Topic: "enhanced for loop"

syntax:

for (<type> <ident> : <collection>)

{ ... }

↑
int
or
double
or
class

↑
identifier
for
each
element
of
collection

↑
array
or
List,
e.g.
ArrayList

When it's convenient:

- going through all of the elements of a collection, from beginning to end.

Example:

```
int arr[] = {1, 2, 3, 4, 5};  
int sum = 0;  
for (int elem : arr)  
    sum += elem;  
return sum; // 15
```

possible implementation
of getMultColTotal

```
public int getMultColTotal
(int min, int max)
{
    int sum = 0;
    for (int col = min; col <= max;
        col++)
        for (int[] row: arr)
            sum += arr[row][col];
    return sum;
}
```

Topic — in Picture
Glossary p. 24 — lab guide
to know

1. Abstract class
2. Abstract method
5. Binary number
(no arithmetic on
final)
6. Bit
7. Byte

11. Inheritance
12. Inner loop
13. Interface
14. Lossy compression
17. Nested loop
18. Outer loop
20. Pixel
21. RGB model
23. Subclass
24. Super class