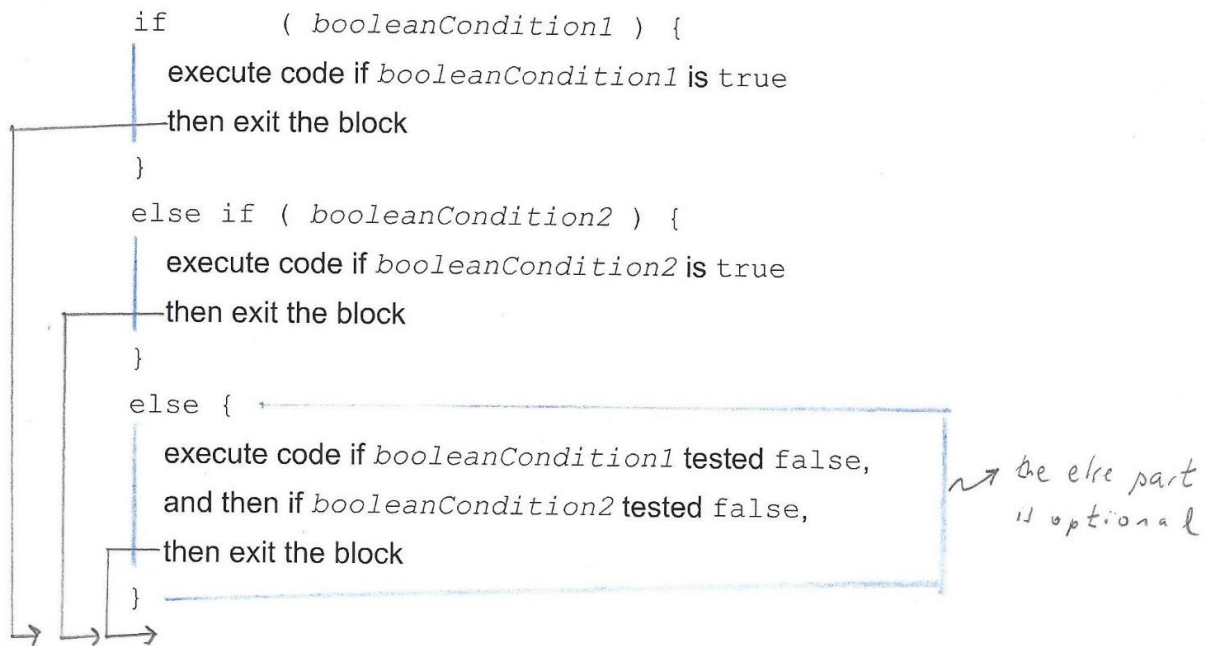


## The if - else if - else Statement



### Example:

```
/*  
 * int i satisfies 1 <= i <= 100  
 */  
int quartile;  
if      ( i > 75 ) quartile=4;  
else if ( i > 50 ) quartile=3;  
else if ( i > 25 ) quartile=2;  
else      quartile=1;
```

calculates the quartile of i.

Note that if  $i = 77$ , all three conditions  $(i > 75)$ ,  $(i > 50)$  and  $(i > 25)$  are true, but only  $(i > 75)$  is tested (so that  $\text{quartile} = 4$ ), and then the code block is exited.