**Assignment 6**

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1. **Closing Reserved words:** These are the reserved words used to mark the end of the loop or a statement.

For example: end for, end if, end while.

} is used for this purpose in C and C++.

**Pros**: Consider the case of C

for(int x=0; x<10; x++)

{

if(x<5)

{

prntf(“ x less than 5”);

}

printf(“ x greater than 5”);

x++;

}

Here, there exists an ambiguity as for when the for loop ended and when if statement ended. Instead, if we use end if and end for in place of }, it will increase the understandability.

**Cons:**

1. If there is a code in which there are many if statements, we must write end if many times which increase complexity.

2. As the list of reserved words increase, the user’s choice to choose an identifier will reduce.

2.

switch(k)  
{  
   case 1:  
   case 2:  
       j = 2 \* k ;  
       break;  
   case 3:  
   case 5:  
       j = 3 \* k ;  
       break;  
   case 4:  
       j = 4 \* k ;  
       break;  
   case 6:  
   case 7:  
       j = k - 1;  
       break;  
}

3.

a.) 2,4

b.) 3,2

c.) 2,2

d.) 3,5

4.

boolean found = false;  
for(i = 1, i <= n; i++) {  
   int   counter = 0;  
   for   (j = 1; j <= n; j++) {  
       if(x[i][j] == 0)  
       counter++;  
   }  
   if(counter == n && found == false) {  
       System.out.println("First all­ zero row is : ", i);  
       found = true;  
   }  
}

5.

**continue statement in 'C and C++:** Let’s first see the syntax of continue

* It works similar to the break statement.
* When used inside a for loop, continue statement causes the conditional test and increment portions of the loop to execute.
* When used with while and do...while loops, continue statement causes the program control to pass to the conditional tests.

**Syntax:**

continue;

The **next** statement in Ruby is similar to continue. Let us understand this using an example:

# next\_loop.rb

k = 0  
loop do  
i += 2  
if k== 4  
next # skip rest of the code in this iteration  
end  
puts k  
if k == 10  
break  
end  
end

Example 2:

upto(7) do |i|

next if i == 5

puts i

end