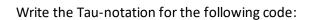
Assignment SU2



- 1. if(x>y++)
- 2. if(age==18)
- 3. return -- weight;
- 4. if(age+10==50)
- 5. a=b[--c];
- 6. if(x>=y[z])
- 7. if(x*=z<60)
- 8. if(x[i]>z[c])
- 9. x=getY(a[1]);
- 10. sum=x[2]+z[0];
- 11. value = A + getVal(C);
- 12. Now analyse questions 1 to 6 again using the simplified method.
 - a. if(x>y++)
 - b. if(age==18)
 - c. return --weight;
 - d. if(age+10==50)
 - e. a=b[--c];
 - f. if(x>=y[z])

Use the simplified model to analyse the following program segments. Remember to write your answers in the simplest form.

- 13. for(int i = 0; i <= n; ++i)
- 14. for(int i = 0; $I \le n+1$; ++i)

(Questions 15 and 16 follow on the next page)

15. Study the code below. Write down the correct simplified analysis of lines 6a, 6b, 6c and 8a, 8b and 8c.

```
1
    public class Assignment
2
3
     public static int numbers (int n)
4
5
      int value = 1;
      for (int i=1; i<=n; i++)
7
            for ( int j=0; j <= i+1; ++j)
9
              value +=i;
10
11
        return value;
     }
13 }
```

16. Again, study the code in question 15. Write down the asymptotic analysis of lines 6a, 6b, 6c and 8a, 8b and 8c.