Problems On Time Complexity

Assignment Questions







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Q1. Calculate the time complexity of the given function:
                                                                                     (Easy)
public static void fun(int n)
{
    if (n < 5)
         System.out.print("College Wallah");
    else {
         for (int i = 0; i < n; i++) {
              System.out.print(i + " ");
    }
}
                                                                                 (Medium)
Q2. Calculate the time complexity of the given function:
public static void function(int n)
{
    int i = 1, s = 1;
    while (s < n) {
         s = s + i;
         i++;
}
                                                                                  (Medium)
Q3. Calculate the time complexity of the given function:
public static void fun(int a, int b){
    while (a != b) {
         if (a > b)
             a = a - b;
         else
             b = b - a;
    }
}
                                                                                  (Medium)
Q4. Calculate the time complexity of the given function:
public static void fun(int n, int x){
   for (int i = 1; i < n; i = i * x)
           System.out.println("hello");
}
```



Q5. Calculate the time complexity of the given function:

(Hard)