```
A) void f1(int n) {
    int 1=2;
     while (ich) {
        110(1)
        i= i * i,
    3
            > i ncreases by i in each iteration:
              è >le >lli .
              2 > 2(2) > 2(2)(2) ... > h
                  \log_2(2^{\times}) = \log_2(n) d \left(\log_2(n)\right)
\times = \log_2(n) \rightarrow \Theta(\log_2(n))
 B) void F2 (int n) S
      for (inti=1; i <= n; i++) { // runs n times
         if ( (i, % (int) sqrt(w)) == 0)5
           for (int k=0; KCpoW(i,3); k++){
           110(1)
            ex) N=9
           -> for (i=1 ->/1/<= n) { // runs 9 times
            if( e %. V9==0) / for/i= 3,6,9
            (triggered 3 times)
 ex) M=25
      for ( l= 1 > 1 <= M) & 11 wns 25 times
          IF ( 1% \25 == 0) \ for i= 5,10,15,20,25
                          (triggend 5 times)
```



