```
Provide big-O notations:
                                  \rightarrow O(n^2)
                                                 \rightarrow O(n^2)
         1. nº + 3n - 7
        2.5n3-3n2+8n-2
                                 \rightarrow O(n^3)
                                                 \rightarrow 0(n^3)
screw the
         8. log(n) - 2 + 3n
                                70(logn) 70(lgn)
notation
         4. nlog(n)
                                 + O(n log n) + O(Brign)
i wrote
 in pu
                                                                 time: n+1
            1. for (int i = 1 i L <= n ; i++) {
                                                     cost : Ci
(fixed)
                 for (int j = 1; j (=n; j++){
                                                                      n*(n+1)
                                                           C2
                     X = 2 * y ;
                                                          Cz
                                      pheader runs extra
                                                                      n2
                     Z = X -- ;
                                                          Cy
               3
                       T(n) = (n+1)^* C_1 + (n^2 + n)^* C_2 + n^2 * C_3 + n^2 * C_4
                      Notation: O(n^2)
             z. for (int i = 1; i <= n; i++) { cost : C, time : (n+1)
                  j=n;
                                                        42
                                                                   n*(nri)
                  while ( ; >= 1) {
                                                       63
                    X++ ;
                                                       Cy
                  j=j/2;
                                                      C5
                       T(n) = (n+1) = + n*C2 + (n2+n) = + n2 = Cy + n2 = Cy
                       Notation: O(n2)
                                cost: C, time: 1
            3. i=1;
               while (i /= n)
                                                  (n+1)
                                      Cz
                  i++ ;
                                      C3
                  T(n) = C_3^* n + C_2^* (n+1) + C_1
                   Notation: O(n)
            4. for (int i = 1; i <= n; i++) { cost : C. time: nr1
                  if ( i == 1 | i == n | i == 3) { / thrice true
                                                          Ca
                     for (gint j = 1; j <= n; j ++){
                                                     Cg
                     z X++ i
                                      T(n) = (nf1) *C, + n *C2 + (3x+3) *C3 + 3n *C4
                                      Notation: O(n)
```