**Calculate complexity of the given code in term of N, solve in the box with all detail.**

|  |  |
| --- | --- |
| **int i, j;**  **for(i = 10; i <= N+N; i = i \* 2){**  **task 🡪 t**  **for(j = N\*N; j >= 1; j = j / 3 ){**  **task 🡪 m**  **task 🡪 k**  **}**  **}** | **int i, j;**  **for(i = 1; i <= 2\*N+N; i = i \* 2){**  **task 🡪 t**  **for(j = 1; j <=lgN; j = j + 4){**  **task 🡪 b**  **task 🡪 c**  **}**  **}** |
| **int i, j;**  **for(i = 1; i <= N/4; i = i + 1){**  **task 🡪 c**  **for(j = 1; j <= (i+i); j = j + 2){**  **task 🡪 d**  **task 🡪 k**  **}**  **}** | **int i, j;**  **for(i = 1; i <= N\*N; i = i + 3){**  **task 🡪 m**  **for(j = i; j <= N\*N\*N; j = j + 3){**  **task 🡪 z**  **task 🡪 k**  **}**  **}** |
| **int i, j;**  **for(i = 1; i <= 2N; i = i + 2){**  **task 🡪 t**  **for(j = 1; j <= i\*i; j = j + 2){**  **task 🡪 m**  **task 🡪 k**  **}**  **}** | **int i, j;**  **for(i = 1; i <= N^2; i = i \* 2){**  **task 🡪 t**  **for(j = i; j <= N^3; j = j + 2){**  **task 🡪 m**  **task 🡪 k**  **}**  **}** |