Q.

```
int func (int n) {
    int s = 0;
    for ( int i = 1; i * i * i <= n; i++) {
    |   s = s + i;
    }

    return s;
}
```

$\Rightarrow$ The in-equality is that $i^3 \leq n$

For worst case, we consider the scenario where the number of iterations are maximum, i.e when $i^3 = n$

$1, 2, 3 \rightarrow$ this is how `i` increments for the value of i, where $i^3 = n$, is the number of iterations performed

$$i^3 = n \quad \Rightarrow \quad i = n^{1/3}$$

$\therefore$ There will be $n^{1/3}$ iterations in the worst case

$\Rightarrow$ $\boxed{T.C. = O(n^{1/3})}$