

Nth Root of a Number using Binary Search -

→ Problem Statement -:

→ Given N and M

To find Nth root of M

$X^N = M$ (return -1 if X \neq integer)

(Brute Force) Using Linear Search -

→ From the problem it is clear -

X is a integer such that $1 \leq X \leq M$

We are to perform linear search in this range -
and check $\text{func}(x, N) = M$

Algorithm -

(1) we first run a loop (say i) from 1 to m.

(2) * if $\text{func}(i, N) == M$

we return x

* if $\text{func}(i, N) > M$

the no is bigger than our range

~~break~~ break out and return -1