Nth ROOT USING BINARY SEARCH

It In this problem, we need to find and return the Nth root of given rumber using Binary search.

Can obviously be solved by using math library in any programming language or just run a linear search till M to find it's Uth root. Time complexity is O(MlogaN).

By using Binary search, we can decrease this. Just that our rules for scrapping out a part of the array will change

Pseudocode:

n Root BS(N, M)

low = 1

high = M

ans = -1

while (low < = high) {

mid = (low + high) | 2

if (pow(mid, N) = = M)

ans = mid

netwn ans

lese if (pow(mid, N) > M)

high = mid - 1

lese low = mid + 1

