Problem Link:

<https://leetcode.com/problems/maximum-candies-allocated-to-k-children/?envType=daily-question&envId=2025-03-14>

Solution:

class Solution {

public:

bool distribute(vector<int>& candies, long long k, int x) {

long long cnt = 0;

for(int c : candies)

{

cnt += c / x;

}

return cnt >= k;

}

int maximumCandies(vector<int>& candies, long long k) {

int l = 1, r = \*max\_element(candies.begin(), candies.end());

int res = 0;

while(l <= r)

{

int m = l + (r - l) / 2;

if(distribute(candies, k, m))

{

res = m;

l = m + 1;

}

else

{

r = m - 1;

}

}

return res;

}

};