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| **Subsequence with GCD in C++** | |
| #include <iostream>  using namespace std;  class SubsequencewithGCD {  public:  static void main() {  int arr[] = {1, 2, 3, 4};  int n = sizeof(arr) / sizeof(arr[0]);  int ans = 0;  for (int i = 0; i < n; i++) {  ans = gcd(ans, arr[i]);  }  if (ans == 1) {  cout << "true" << endl;  } else {  cout << "false" << endl;  }  }  static int gcd(int a, int b) {  if (b == 0) {  return a;  } else {  return gcd(b, a % b);  }  }  };  int main() {  SubsequencewithGCD::main();  return 0;  } | Dry Run on Given Input arr[] = {1, 2, 3, 4}  Let’s compute:   | **Step** | **i** | **arr[i]** | **Current GCD (ans)** | | --- | --- | --- | --- | | 1 | 0 | 1 | gcd(0, 1) = 1 | | 2 | 1 | 2 | gcd(1, 2) = 1 | | 3 | 2 | 3 | gcd(1, 3) = 1 | | 4 | 3 | 4 | gcd(1, 4) = 1 |   ✅ Final GCD = 1 → So the output will be:  true ✅ Output true |
| true | |