#include <iostream>

#include <vector>

#include <unordered\_map>

std::vector<int> getIndices(const std::vector<int>& arr, int sum) {

std::unordered\_map<int, int> map;

for (int i = 0; i < arr.size(); ++i) {

if (map.count(sum - arr[i]))

return {map[sum - arr[i]], i};

map[arr[i]] = i;

}

return {-1, -1};

}

int main() {

std::vector<int> arr = {2, 7, 11, 15};

int sum = 9;

std::vector<int> result = getIndices(arr, sum);

if (result[0] != -1)

std::cout << "[" << result[0] << ", " << result[1] << "]\n";

else

std::cout << "No pair found.\n";

return 0;

}