**Array Subset of another array**

Submissions: [12939](https://practice.geeksforgeeks.org/problem_submissions.php?pid=1994)  Accuracy:

45.48%

   Difficulty: [Easy](https://practice.geeksforgeeks.org/Easy/0/0/)   Marks: 2

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Given two arrays: arr1[0..m-1] of size m and arr2[0..n-1] of size n. Task is to check whether arr2[] is a subset of arr1[] or not. Both the arrays can be both unsorted or sorted. It may be assumed that elements in both array are distinct.

**Input:**  
The first line of input contains an integer T denoting the number of test cases. Then T test cases follow. Each test case contains an two integers m and n denoting the size of arr1 and arr2 respectively. The following two lines contains the space separated elements of arr1 and arr2 respectively.  
  
**Output:**  
Print "Yes"(without quotes) if arr2 is subset of arr1.  
Print "No"(without quotes) if arr2 is not subset of arr1.  
  
**Constraints:**  
1 <= T <= 100  
1 <= m,n <= 105  
1 <= arr1[i], arr2[j] <= 105  
  
**Example:  
Input:**  
3  
6 4  
11 1 13 21 3 7  
11 3 7 1  
6 3  
1 2 3 4 5 6  
1 2 4  
5 3  
10 5 2 23 19  
19 5 3  
  
**Output:**  
Yes  
Yes  
No

**Explanation:  
Testcase 1:** (11, 3, 7, 1) is a subset of first array.

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/array-subset-of-another-array/0#ExpectOP) option \*\*

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#include <iostream>

#include <map>

#include <stdio.h>

#include <set>

using namespace std;

string AenB(long a[], long b[], int len\_a, int len\_b)

{

set<long> hash; // = new HashSet<long>(a);

for(int i =0; i<len\_a; i++) {

hash.insert(a[i]);

}

for(int i =0; i < len\_b; i++) {

if(hash.find(b[i]) == hash.end() ) {

return "No";

}

}

return "Yes";

}

int main() {

int t;

scanf("%d", &t);

while(t--) {

int n, m;

scanf("%d %d", &n, &m);

long a[n];

long b[m];

for(int i = 0; i < n; i++) {

scanf("%d", &a[i]);

}

for(int i = 0; i < m; i++) {

scanf("%d", &b[i]);

}

cout << AenB(a, b, n, m) << endl;

}

return 0;

}