

# Mock Problem

## Problem Statement

A school maintains a database of student roll numbers. Given a roll number  $x$  and a list of registered roll numbers, determine whether  $x$  exists in the system.

## Input

1. First line contains integer  $N$  – the number of registered students.
2. Second line contains integer  $x$  – the roll number to search.
3. Third line contains  $N$  integers separated by space – the registered roll numbers.

## Output

Print **YES** if roll number  $x$  exists in the list.

Print **NO** otherwise.

## Minimal Solution in C

```
#include <stdio.h>
int main() {
    int n, x, a;
    int found = 0;
    scanf("%d", &n);
    scanf("%d", &x);
    for (int i = 0; i < n; i++) {
        scanf("%d", &a);
        if (a == x) {
            found = 1;
        }
    }
    printf(found ? "YES\n" : "NO\n");
    return 0;
}
```

## Solution in Python

```
n = int(input())
x = int(input())
arr = list(map(int, input().split()))
print("YES" if x in arr else "NO")
```

## Examples

### Example 1

#### Input

```
5
305
101 203 305 407 509
```

#### Output

```
YES
```

#### Explanation

Roll number 305 is present in the list.

### Example 2

#### Input

```
4
50
12 45 78 90
```

#### Output

```
NO
```

#### Explanation

Roll number 50 is not present in the list.