



Lesson 23 Practice 5

In the last lesson there was a problem with the program, which is if we have a thousand digits in x, we need to spin a thousand times to search inside x and the same is the case for y, but in c++ there is a **find** command.

The program will be as follows:.

```
#include<iostream>
#include<algorithm>
#include<vector>
using namespace std;

int main() {
vector<int>x{ 10,15,13,6,4,3,5 };
vector<int>y{ 2,4,6,8,20,16,9 };
loop:
int z, found = 0;
cout << "Enter a number: ";
cin >> z;

for (int i = 0; i < x.size() && found == 0; i++)
//searching into x
if (find(y.begin(), y.end(), z - x[i]) != y.end())
```



```
cout << "Yes\n";  
cout << x[i] << " " << z - x[i] << endl;  
found = 1;  
}  
cout << (found ? "" : "No\n");  
goto loop;  
}
```