#include <bits/stdc++.h>

using namespace std;

int equilibrium(int arr[], int n)

{

int i, j;

int leftsum, rightsum;

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

{

leftsum = 0;

for (j = 0; j < i; j++)

leftsum += arr[j];

rightsum = 0;

for (j = i + 1; j < n; j++)

rightsum += arr[j];

if (leftsum == rightsum)

return i;

}

return -1;

}

int main()

{

int arr[] = { -7, 1, 5, 2, -4, 3, 0 };

int arr\_size = sizeof(arr) / sizeof(arr[0]);

cout << equilibrium(arr, arr\_size);

return 0;

}