#include <stdio.h>

int equilibrium\_index(int arr[], int n)

{

int sum = 0;

int leftsum = 0;

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

sum += arr[i];

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

sum -= arr[i];

if (leftsum == sum)

return i;

leftsum += arr[i];

}

return -1;

}

int main()

{

int n;

printf(“\nEnter the number of elements : “);

scanf(“%d”,&n);

int arr[n];

printf(“\nInput the array elements : “);

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

{

scanf(“%d”,&arr[i]);

}

printf(“\nEquilibrium Index : %d\n”, equilibrium\_index(arr, n));

return 0;

}

}