// Count triplets with sum smaller than a given value

#include <iostream>

using namespace std;

void countTriplets(int arr[], int n, int sum)

{

for(int i=0;i<n-2;i++)

{

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

{

for(int k=j+1;k<n;k++)

{

if(sum>arr[i]+arr[j]+arr[k])

cout<<arr[i]<<" "<<arr[j]<<" "<<arr[k]<<endl;

}

}

}

}

int main()

{

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

int n = sizeof arr / sizeof arr[0];

int sum = 12;

countTriplets(arr, n, sum) ;

return 0;

}