

Find Triplet With Sum

Way - 1

Best brute force is take 3 point normal ways



First of all sort the given array by inbuilt sort function

```
Sort ( arr , arr + size );
```

Then take $i = 0$, $j = i + 1$, $k = \text{size} - 1$.
first element after i last

Take two nested loops.

```
for (int i = 0, j = 0, k = 0; i < n; i++)  
{  
    j = i + 1, k = size - 1;  
    while (j < k)  
    {  
        if (arr[i] + arr[j] + arr[k] == sum)  
        {  
            j++, k--;  
        }  
        else if (arr[i] + arr[j] + arr[k] < sum)  
        {  
            j++;  
        }  
        else if (arr[i] + arr[j] + arr[k] > sum)  
        {  
            k--;  
        }  
    }  
}
```

Here time complexity

$O(n^2)$