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#include <stdio.h>
#include <stdlib.h>
//find triplet using sorting
int compareFun(const void *a, const void *b)
{
       return ( *(int*)a - *(int*)b);
}
int findTriplet(int arr[], int size, int sum)
       int leftIndex, rightIndex, tripletSum;
       qsort(arr, size, sizeof(int), compareFun);
       for(int index = 0; index < size; index++)
               leftIndex = index + 1;
               rightIndex = size - 1;
               while( leftIndex < rightIndex)</pre>
                       tripletSum = arr[index] + arr[leftIndex] + arr[rightIndex];
                       if(tripletSum == sum)
                              printf("Triplet is %d, %d and %d", arr[index], arr[leftIndex],
arr[rightIndex]);
                              return 1;
                       if(tripletSum < sum)
                              leftIndex++;
                       else
                              rightIndex--;
               }
       return 0;
}
int main()
{
       int *arr, size, sum;
       printf("Enter size of the array\n");
       scanf("%d", &size);
       printf("Enter elements in array\n");
       for(int index = 0; index < size; index++)
               scanf("%d", &arr[index]);
       printf("Enter the value of sum\n");
       scanf("%d", &sum);
       if(!findTriplet(arr, size, sum))
               printf("Triplet not found");
       return 0;
}
Time complexity: O(n^2)
space complexity: O(1)
```