

qsort

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// Programming 1. Sample at 2016-11-24-14-34.16
#include <stdio.h>
#include <stdlib.h>

int data[10] = {32387241,2,2,4,5,9,55,3,77,3};

int compare(const void *a, const void *b) {
    char valuea = *((char*)a);
    char valueb = *((char*)b);

    // printf("comparing %d %d\n",valuea,valueb);

    return valuea-valueb;
}

int compare_r(const void *a, const void *b) {
    char valuea = *((char*)a);
    char valueb = *((char*)b);

    // printf("comparing %d %d\n",valuea,valueb);

    return valueb-valuea;
}

void print_data()
{
    char *ptr = (char*)data;
    for(int i=0;i<40;i++)
    {
        printf("%d ",ptr[i]);
    }
    printf("\n");
}

int main(/*int c, char **v */)
{
    print_data();
    qsort(data,40,sizeof(char),compare);
    print_data();
    qsort(data,40,sizeof(char),compare_r);
    print_data();

    return ;
}
```

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