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//Quick sort
#include<stdio.h>
void swap(int *a, int *b){int tmp = *a; *a = *b; *b = tmp;}
int partition(int *A, int p, int r){
    int x = A[r], i = p - 1, j = p;
    for (; j <= r - 1; j++) if (A[j] <= x){++i;swap(&A[i], &A[j]);}
    ++i;swap(&A[i], &A[r]);return i;}
void qsort(int *A, int p, int r){int q = -1;if (p < r){q = partition(A, p, r
);
qsort(A, p, q - 1);qsort(A, q + 1, r);}}
int main(int argc, char **argv){
    int i = 0, a[10] = { 9, 8, 7, 6, 5, 4, 3, 2, 1, 0 };
    qsort(a, 0, 9);for (; i < 10; i++) printf("%d\n", a[i]);return 0;}

```