**SELECTION SORT PROGRAM USING ARRAYS**

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| #include <stdio.h>  #define MAXSIZE 500 void selection(int elements[], int maxsize); int elements[MAXSIZE],maxsize; int main() { int i; printf(“\nHow many elements you want to sort: “); scanf(“%d”,&maxsize); printf(“\nEnter the values one by one: “); for (i = 0; i < maxsize; i++) { printf (“\nEnter element %i :”,i); scanf(“%d”,&elements[i]); } printf(“\nArray before sorting:\n”); for (i = 0; i < maxsize; i++) printf(“[%i], “,elements[i]); printf (“\n”); selection(elements, maxsize); printf(“\nArray after sorting:\n”); for (i = 0; i < maxsize; i++) printf(“[%i], “, elements[i]); } void selection(int elements[], int array\_size) { int i, j, k; int min, temp; for (i = 0; i < maxsize-1; i++) { min = i; for (j = i+1; j < maxsize; j++) { if (elements[j] < elements[min]) min = j; } temp = elements[i]; elements[i] = elements[min]; elements[min] = temp; } } |