```
#include <stdio.h>
     void printarr(int *A, int n)
             printf("%d ", A[i]);
         printf("\n");
     int partition(int A[], int low, int high)
         int pivot = A[low];
         int i = low + 1;
         int j = high;
         int temp;
             while (A[i] <= pivot)
                 i++;
             while (A[j] > pivot)
             if (i < j)
                 temp = A[i];
                 A[i] = A[j];
                 A[j] = temp;
         } while (i < j);
         temp = A[low];
         A[low] = A[j];
         A[j] = temp;
         return j;
     void quickshort(int A[], int low, int high)
         if (low < high)
             int pivotindex = partition(A, low, high);
             quickshort(A, low, pivotindex - 1);
             quickshort(A, pivotindex + 1, high);
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     int main()
         int A[] = \{2, 5, 3, 6, 9, 7, 4\};
         printarr(A, n);
         quickshort(A, 0, n - 1);
         printarr(A, n);
         return 0;
```

2 5 3 6 9 7 4 2 3 4 5 6 7 9

```
#include <stdio.h>
                                                                  while (i < j);
                                                                     temp = A[low];
void printarr(int *A, int n)
                                                                     A[low] = A[j];
{
                                                                     A[j] = temp;
  for (int i = 0; i < n; i++)
                                                                     return j;
     printf("%d ", A[i]);
                                                                  }
  }
                                                                  void quickshort(int A[], int low, int high)
  printf("\n");
}
                                                                     if (low < high)
                                                                     {
int partition(int A[], int low, int high)
                                                                       int pivotindex = partition(A, low, high);
{
                                                                       quickshort(A, low, pivotindex - 1);
                                                                       quickshort(A, pivotindex + 1, high);
  int pivot = A[low];
                                                                     }
  int i = low + 1;
                                                                  }
  int j = high;
  int temp;
                                                                  int main()
                                                                  {
  do
                                                                     int A[] = \{2, 5, 3, 6, 9, 7, 4\};
                                                                     int n = 7;
     while (A[i] <= pivot)
                                                                     printarr(A, n);
    {
                                                                     quickshort(A, 0, n - 1);
       i++;
                                                                     printarr(A, n);
     }
     while (A[j] > pivot)
                                                                     return 0;
    {
                                                                  }
       j--;
     }
     if (i < j)
     {
       temp = A[i];
       A[i] = A[j];
       A[j] = temp;
    }
  }
```