**package** com;

**class** quick{

**static** **void** swap(**int**[] arr, **int** i, **int** j)

{

**int** temp = arr[i];

arr[i] = arr[j];

arr[j] = temp;

}

**static** **int** partition(**int**[] arr, **int** low, **int** high)

{

**int** pivot = arr[high];

**int** i = (low - 1);

**for**(**int** j = low; j <= high - 1; j++)

{

**if** (arr[j] < pivot)

{

i++;

*swap*(arr, i, j);

}

}

*swap*(arr, i + 1, high);

**return** (i + 1);

}

**static** **void** quickSort(**int**[] arr, **int** low, **int** high)

{

**if** (low < high)

{

**int** pi = *partition*(arr, low, high);

*quickSort*(arr, low, pi - 1);

*quickSort*(arr, pi + 1, high);

}

}

**static** **void** printArray(**int**[] arr, **int** size)

{

**for**(**int** i = 0; i < size; i++)

System.***out***.print(arr[i] + " ");

System.***out***.println();

}

**public** **static** **void** main(String[] args)

{

**int**[] arr = { 23,5,46,3,32,6};

**int** n = arr.length;

*quickSort*(arr, 0, n - 1);

System.***out***.println("Sorted array: ");

*printArray*(arr, n);

}

}