ALGORITHM AND GRAPH FOR SELECTION SORT:

```java
class SelectionSort
{
      void sort(int arr[])
      {
            int n = arr.length;

            // One by one move boundary of unsorted subarray
            for (int i = 0; i < n-1; i++)
            {
                  // Find the minimum element in unsorted array
                  int min_idx = i;
                  for (int j = i+1; j < n; j++)

                        if (arr[j] < arr[min_idx])

                              min_idx = j;

                  // Swap the found minimum element with the first
                  // element
                  int temp = arr[min_idx];
                  arr[min_idx] = arr[i];
                  arr[i] = temp;
            }
      }

      // Prints the array
      void printArray(int arr[])
      {
            int n = arr.length;

            for (int i=0; i<n; ++i)

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

      // Driver code to test above
      public static void main(String args[])
      {
            SelectionSort ob = new SelectionSort();
            int arr[] = {64,25,12,22,11};
            ob.sort(arr);
            System.out.println("Sorted array");
            ob.printArray(arr);
      }
}
```

Times of selection sort