

Speed rate analysis:

Example1 Size 1000 students;

```
Time taken to read file :  
30 ms  
Time taken to sort file :  
3 ms  
Time taken to split file :  
2 ms
```

Example 2 Size 10k students:

```
Time taken to output two new files :  
6857 ms
```

Example3 Size 100k students:

```
Time taken to output two new files :  
85923 ms
```

Example 4 Size 1m students:

```
Time taken to output two new files :  
672394 ms
```

Example 5 10m students:

```
Time taken to output two new files :  
9 ms
```