

## Software Fault Prediction Analysis Using the Linear Regression Technique

Take Input 10 data And Predict The Next 5 Data.

### Relative Error

```
Input = 11 Ex= 24 Pr 23.73 Error= 0.27 in percent Error 1.12
Input = 12 Ex= 27 Pr 25.76 Error= 1.24 in percent Error 4.82
Input = 13 Ex= 36 Pr 27.78 Error= 8.22 in percent Error 29.58
Input = 14 Ex= 39 Pr 29.81 Error= 9.19 in percent Error 30.85
Input = 15 Ex= 41 Pr 31.83 Error= 9.17 in percent Error 28.81
**Average Error for the Next 5 5.618181818181817
```

Take Input 20 data And Predict The Next 10 Data.

### Relative Error

```
Input = 21 Ex= 50 Pr 54.35 Error= 4.35 in percent Error 8.01
Input = 22 Ex= 50 Pr 57.02 Error= 7.02 in percent Error 12.31
Input = 23 Ex= 50 Pr 59.69 Error= 9.69 in percent Error 16.23
Input = 24 Ex= 50 Pr 62.35 Error= 12.35 in percent Error 19.81
Input = 25 Ex= 52 Pr 65.02 Error= 13.02 in percent Error 20.02
Input = 26 Ex= 52 Pr 67.69 Error= 15.69 in percent Error 23.18
Input = 27 Ex= 52 Pr 70.35 Error= 18.35 in percent Error 26.09
Input = 28 Ex= 54 Pr 73.02 Error= 19.02 in percent Error 26.05
Input = 29 Ex= 57 Pr 75.69 Error= 18.69 in percent Error 24.69
Input = 30 Ex= 68 Pr 78.35 Error= 10.35 in percent Error 13.22
**Average Error for the Next 10 12.853759398496237
```

Take Input 40 data And Predict The Next 13 Data.

### Relative Error

```
Input = 41 Ex= 91 Pr 92.79 Error= 1.79 in percent Error 1.93
Input = 42 Ex= 91 Pr 95.02 Error= 4.02 in percent Error 4.23
Input = 43 Ex= 92 Pr 97.25 Error= 5.25 in percent Error 5.39
Input = 44 Ex= 98 Pr 99.47 Error= 1.47 in percent Error 1.48
Input = 45 Ex= 100 Pr 101.70 Error= 1.70 in percent Error 1.67
Input = 46 Ex= 100 Pr 103.92 Error= 3.92 in percent Error 3.78
Input = 47 Ex= 105 Pr 106.15 Error= 1.15 in percent Error 1.08
Input = 48 Ex= 115 Pr 108.38 Error= 6.62 in percent Error 6.11
Input = 49 Ex= 118 Pr 110.60 Error= 7.40 in percent Error 6.69
Input = 50 Ex= 121 Pr 112.83 Error= 8.17 in percent Error 7.24
Input = 51 Ex= 123 Pr 115.06 Error= 7.94 in percent Error 6.90
Input = 52 Ex= 124 Pr 117.28 Error= 6.72 in percent Error 5.73
Input = 53 Ex= 124 Pr 119.51 Error= 4.49 in percent Error 3.76
**Average Error for the Next 13 4.664612498195987
```