TUGAS 3

STATISTIKA DAN PROBABILITAS

MEAN, MEDIAN, MODUS

Disusun oleh:

Rama Pramudya Wibisana 2022320019

PROGRAM STUDI SISTEM INFORMASI

FAKULTAS INFORMATIKA

UNIVERSITAS BINA INSANI

BEKASI

2022

SOAL

Mencari Mean, Median, Modus dari data berikut

19	40	38	31	42
23	16	26	30	41
18	27	33	31	27
43	56	45	41	26
30	17	50	62	19
20	27	22	37	42
37	26	28	51	63
42	27	38	42	16
30	37	31	25	18
26	28	39	42	55

JAWABAN :

Nilai	Frekuensi
16	2
17	1
18	2
19	2
20	1
22	1
23	1
25	1
26	4
27	4
28	2
30	3
31	3
33	1
37	3
38	2
39	1
40	1
41	2
42	5
43	1
45	1
50	1
51	1
55	1
56	1
62	1
63	1

- **Mean**

$$x = \frac{\sum f_n \, x_n}{\sum f}$$

$$x = \frac{\begin{array}{c}(16 \times 2) + (17 \times 1) + (18 \times 2) + (19 \times 2) + (20 \times 1) + (22 \times 1) + (23 \times 1) + (25 \times 1) + \\ (26 \times 4) + (27 \times 4) + (28 \times 2) + (30 \times 3) + (31 \times 3) + (33 \times 1) + (37 \times 3) + (38 \times 2) + \\ (39 \times 1) + (40 \times 1) + (41 \times 2) + (42 \times 5) + (43 \times 1) + (45 \times 1) + (50 \times 1) + (51 \times 1) + \\ (55 \times 1) + (56 \times 1) + (62 \times 1) + (63 \times 1)\end{array}}{50}$$

$$x = \frac{\begin{array}{c}32 + 17 + 36 + 38 + 20 + 22 + 23 + 25 + 104 + 108 + 56 + 90 + 93 + 33 + 111 + 76 + \\ 39 + 40 + 82 + 210 + 43 + 45 + 50 + 51 + 55 + 56 + 62 + 63\end{array}}{50}$$

$$x = \frac{1680}{50} = \mathbf{33,6}$$

- **Median**

$$Me = \frac{X\frac{n}{2} + X\left(\frac{n}{1} + 1\right)}{2}$$

$$Me = \frac{X\frac{50}{2} + X\left(\frac{50}{2} + 1\right)}{2}$$

$$Me = \frac{X_{25} + X_{26}}{2}$$

$$Me = \frac{31 + 31}{2}$$

$$Me = \frac{62}{2} = \mathbf{31}$$

- **Modus**

Nilai yang memiliki frekuensi tertinggi adalah 42. **Modus = 42**