Mean =
$$(20 + 25 + 22 + 23 + 21 + 45 + 48 + 50 + 46 + 47) \div 10$$

= 34.7
Variance = $[(20 - 34.7)^2 + (25 - 34.7)^2 + (22 - 34.7)^2 + (23 - 34.7)^2 + (21 - 34.7)^2 + (45 - 34.7)^2 + (48 - 34.7)^2 + (46 - 34.7)^2 + (47 - 34.7)^2] \div [0$
= 159.209

MEMORY USAGE

Mean =
$$(30 + 35 + 31 + 32 + 33 + 80 + 85 + 90 + 83 + 87) \div 10$$

= 58.6
Variance = $[(30-58.6)^2 + (35-58.6)^2 + (31-58.6)^2 + (32-58.6)^2 + (33-58.6)^2 + (85-58.6)^2$

Gaussian probability =
$$\frac{1}{\sqrt{2\pi \times \text{Variance}}} \times e\left[-\frac{(\text{value} - \text{mean})^2}{2 \times (\text{variance})^2}\right]$$

If probability < 0.0001, Value is anomaly

Gaussian probability =
$$\frac{1}{\sqrt{2\pi} \times 159.29} \times e^{\left[-\frac{(54-34.7)^2}{2 \times (159.29)^2}\right]}$$

= 0.02486

$$\int aussian \quad probability = \frac{1}{\sqrt{2\pi} \times 104.24} \times e \left[-\frac{(78-58.6)^2}{2 \times (704.24)^2} \right]$$

$$= 0.00056$$

hour

CPU usage = 54,

Gaussian probability =
$$\frac{1}{\sqrt{2\pi} \times 159.29}$$
 \(\text{V} \) \(e \) \(\frac{(54 - 34.7)^2}{2 \times(159.29)^2} \) \(\frac{12 \text{hour}}{2 \times(159.29)^2} \) \(= 0.00248 \)

Gaussian probability =
$$\frac{1}{\sqrt{2\pi} \times 704.24} \times e \left[-\frac{(35 - 58.6)^2}{2 \times (704.29)^2} \right]$$
$$= 0.00056$$

Since all gaussian probability of all data points are more than threshold 0.0001, all data points are normal