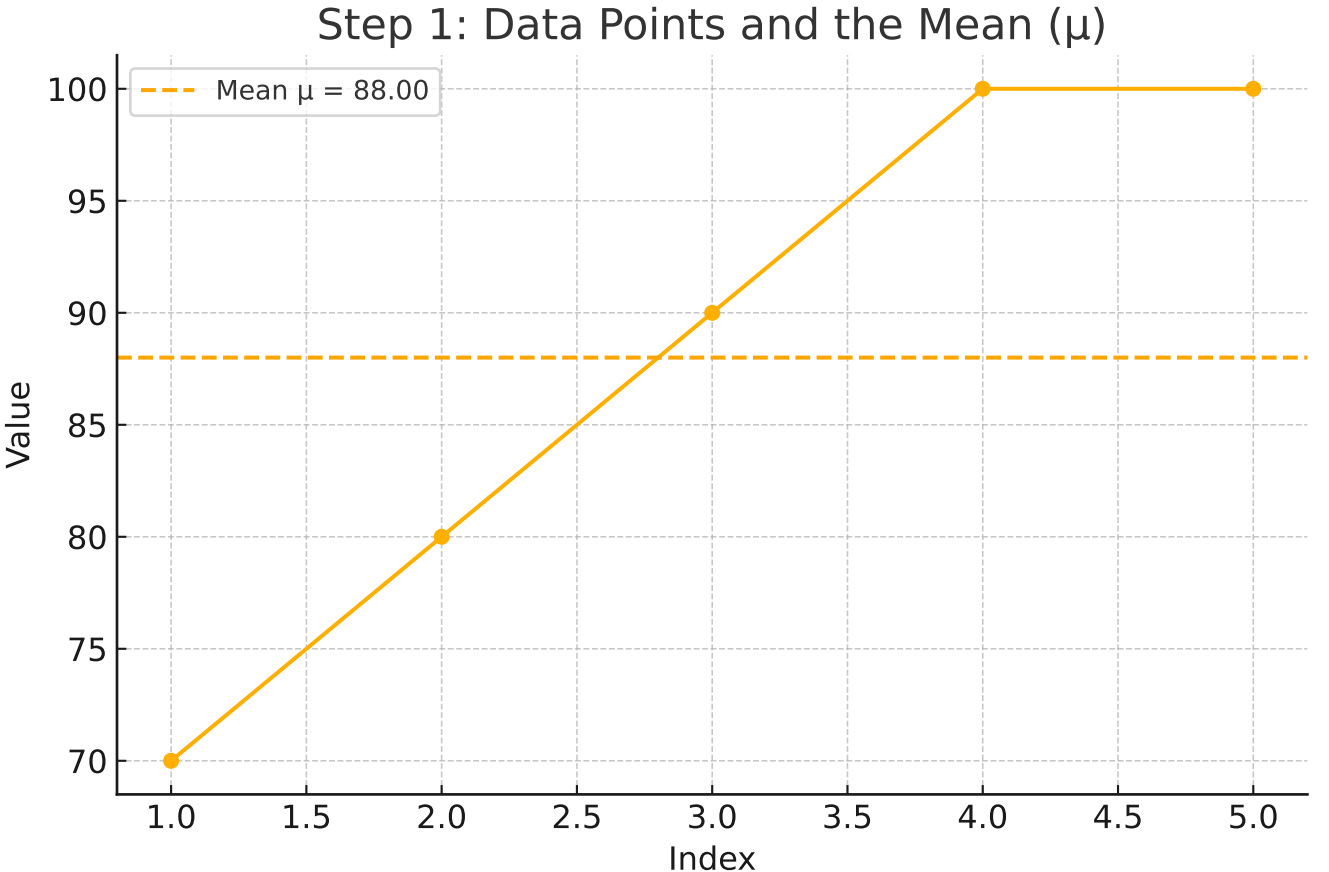
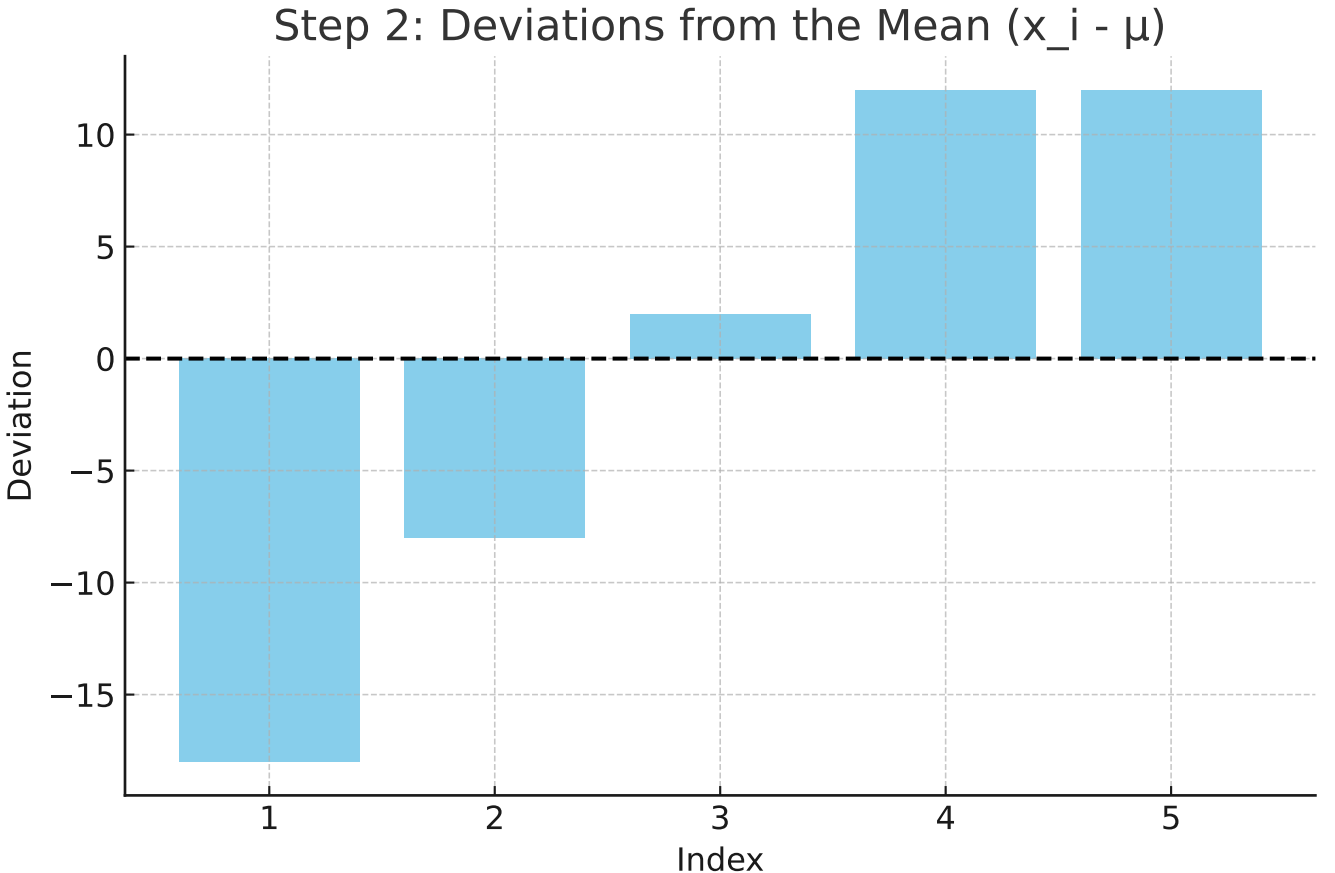
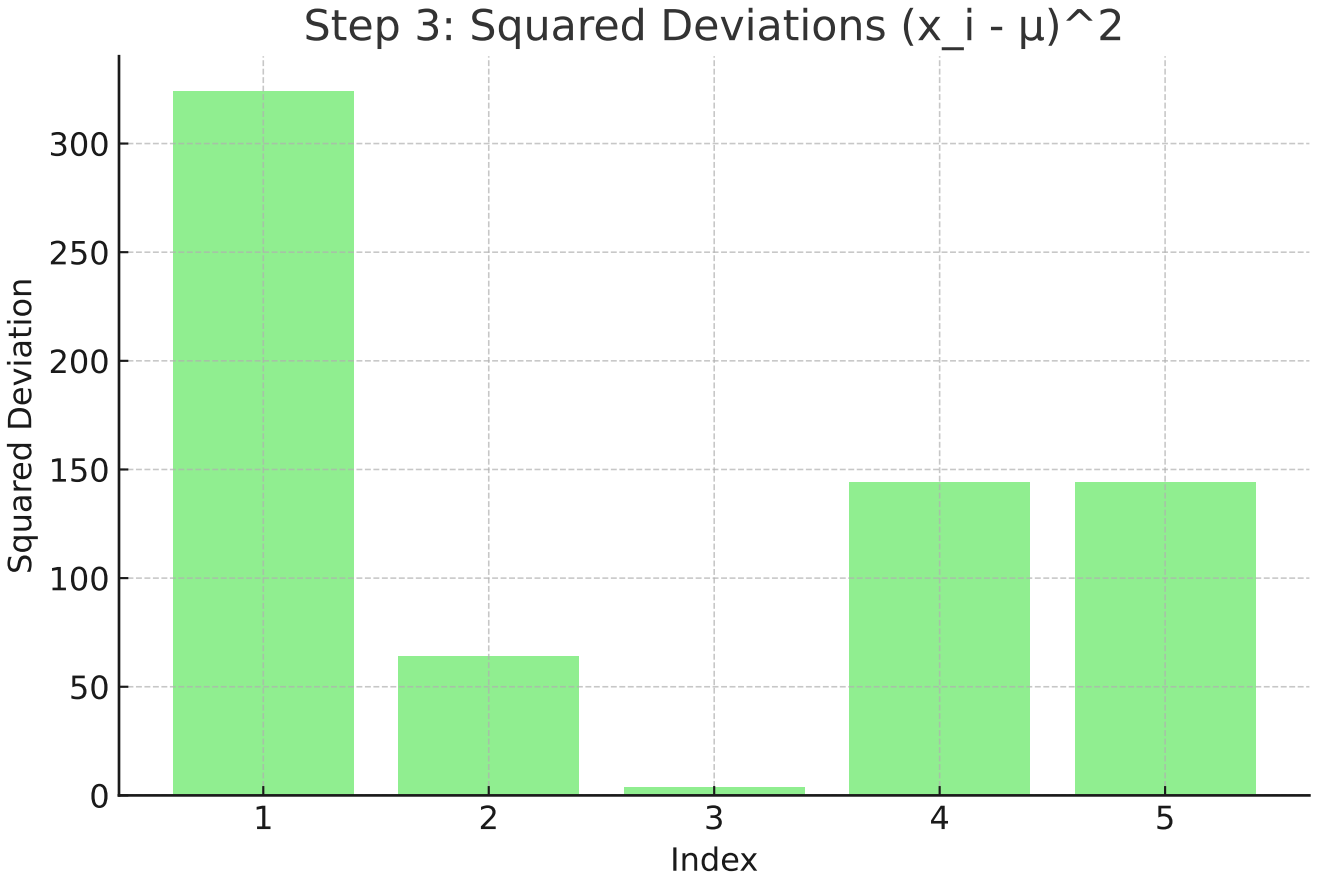

Step 1: Data Points and the Mean (μ)
Mean μ = 88.00
Value
Index
100
95
90
85
80
75
70
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0


Step 2: Deviations from the Mean (x_i - μ)
Deviation
10
5
0
−5
−10
−15
1
2
3
4
5
Index


Step 3: Squared Deviations (x_i - μ)^2
Squared Deviation
0
50
100
150
200
250
300
1
2
3
4
5
Index

Step 4: Variance and Standard Deviation (Population)

Mean (μ) = 88.00
Squared deviations sum = 680.00
Variance (σ^2) = (Σ (x_i - μ)^2) / N = 136.00
Standard Deviation (σ) = √Variance = 11.66