Problem on Histogram

To obtain sample on each subinterval use random generator for integer data uniformly distributed on current interval with given volumes, presented in the table. Full sample you will obtain after union all data. You need to build a histogram for the sample using corresponding MatLab function. Each bins (category) has a different width and define the boundary points; they are should be passed as a vector of numerical values. Histogram option 'BinEdges' provides such an opportunity. And in addition: put points of mean and median on the graph with histogram. Draw conclusion.

Data 1

Eighteen workers have an income in the range from 10,000 to 14,000 rubles, the income of 22 workers belongs to the interval (14000 - 22000), 30 workers – (22000 - 30000), 22 workers – (30000 - 36000), 8 workers (36000 – 70000).

Monthly income	Interval midle, X_i	Number (Volume) n_i (workers) ∈current interval $f_i = n_i / N$
10000 - 14000	12000	18
14000 - 22000	17000	22
22000- 30000	26000	30
30000-36000	33000	22
36000 - 70000	48000	8
Итого:	136000	100

Data 2

Twenty employees have an income in the range from 10,000 to 14,000 rubles, the income of 25 employees belongs to the interval (14000 - 22000), 30 employees have (22,000- 30,000), 10 employees have (30000-50000), 5 employees have (50000 - 100000) and 10 employees (100000 – 500000).

Monthly income	Interval midle, X_i	Number (Volume) n_i (workers) ∈current interval $f_i = n_i / N$
10000 - 14000	12000	20
14000 - 22000	17000	25
22000- 30000	26000	30
30000-50000	40000	10
50000 - 100000	75000	5
100000 -500000	300000	10
Итого:	136000	100

Result of Tasks1	Result of Tasks2
	