The first 100 test cases are following a normal distribution with mean = 250 and standard deviation = 100.

The next 100 test cases are following an exponential distribution with scale = 250.

The subsequent 100 test cases are generated from a geometric distribution with probability of success = 0.2.

For the next 100 test cases, a negative binomial distribution is used with number of successes = 5 and probability of success = 0.3.

The subsequent 100 test cases are generated from a Poisson distribution with lambda = 50.

The next 100 test cases are uniformly distributed between 1 and 500.

For the following 100 test cases, a bimodal distribution is used with two normal distributions: mean1 = 50, std1 = 10 and mean2 = 300, std2 = 50.

The next 100 test cases are generated from a trimodal distribution with three normal distributions: mean1 = 50, std1 = 10, mean2 = 250, std2 = 30, and mean3 = 500, std3 = 50.

The final 100 test cases are generated from a multimodal distribution with five normal distributions: mean1 = 300, std1 = 40, mean2 = 50, std2 = 10, mean3 = 150, std3 = 30, mean4 = 500, std4 = 60, and mean5 = 450, std5 = 50.

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