Assignment 3

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Question: The following table gives the lifetime of 400 neon lamps:

Lifetime(in hrs)	No.of lamps
$300 - 400$	14
$400 - 500$	56
$500 - 600$	60
$600 - 700$	86
$700 - 800$	74
$800 - 900$	62
$900 - 1000$	48

TABLE I
GIVEN DATA

(i) Represent the given information with the help of a histogram.
(ii) How many lamps have a lifetime of more than 700 hours?

Solution:

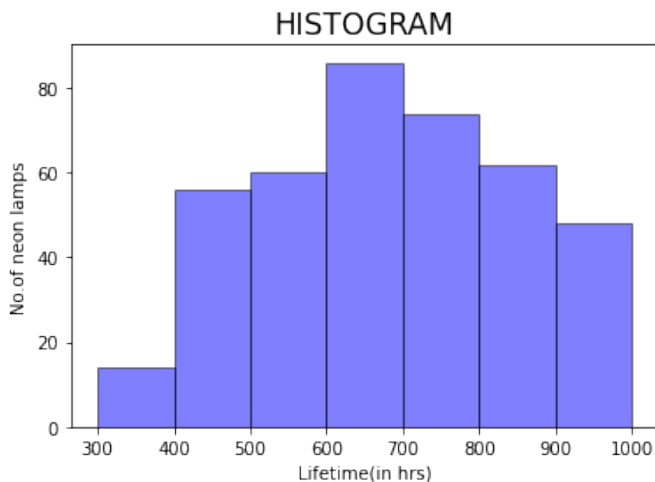(i) Representation of given information in the form of histogram:

Fig. 1. Histogram

(ii) Clearly, from the given table, The number of lamps that have a lifetime of more than 700 hours would be

$$= 74 + 62 + 48 \tag{1}$$
$$= 184 \tag{2}$$