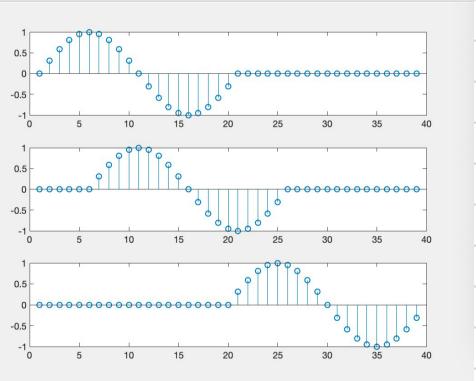
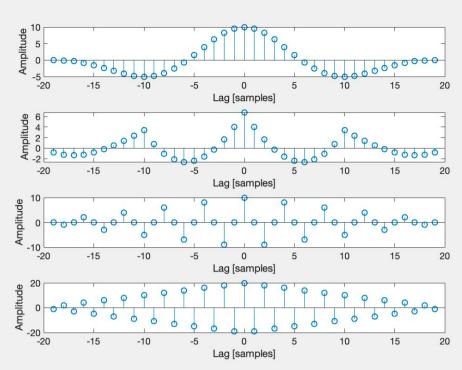


(b)

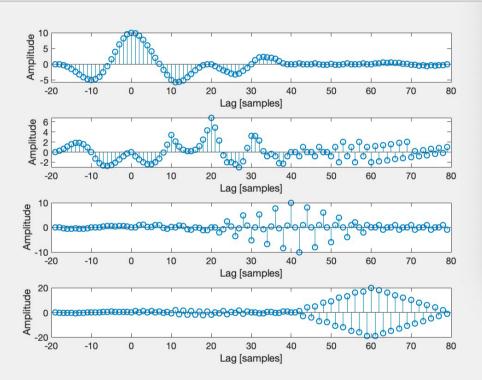


(C) Both the lengths of X[n] and h[n] are 20, so the length of output signals (the length of shifting to overlap) is 20+20-1=39.

(a)(b)



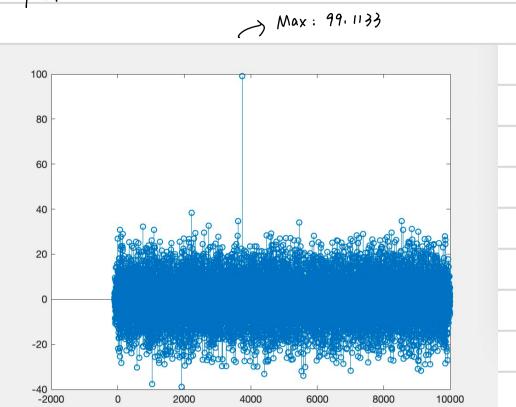
(c)



(d) To find the maximum value, and this value is located in the first sample of the signal.

For example, as the first figure shows, it is maximum when n=0. We have known that $x_i[n]$ is located from 0 to ∞ , so the first sample of $x_i[n]$ is the maximum value in the figure.

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The location is 3839.