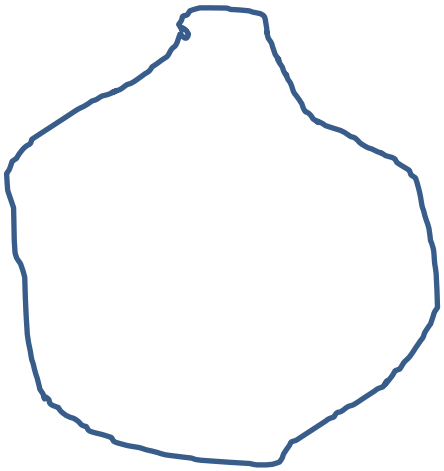
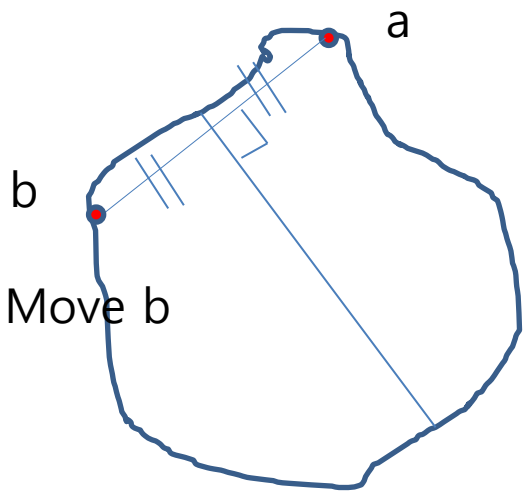
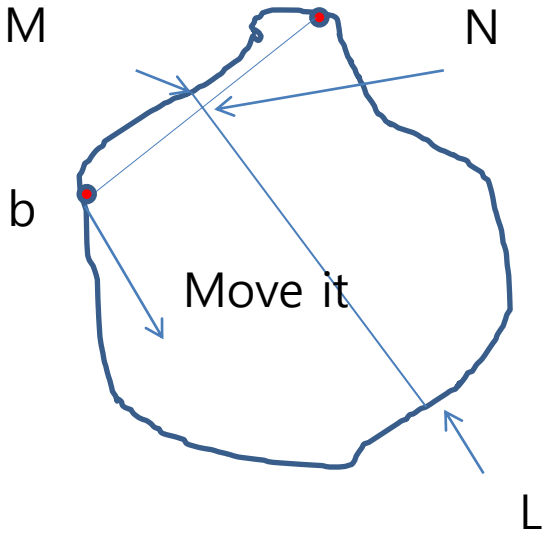
Solution of Inscribed Squares Problem

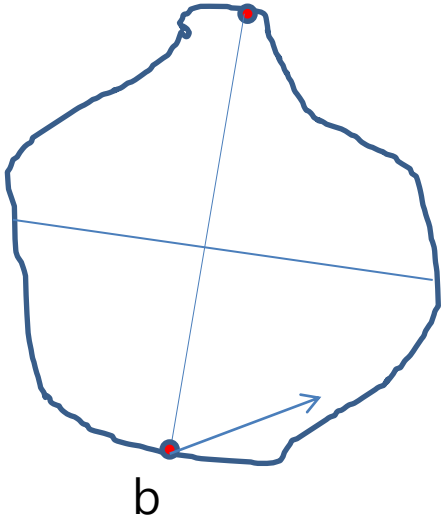


Closed curve

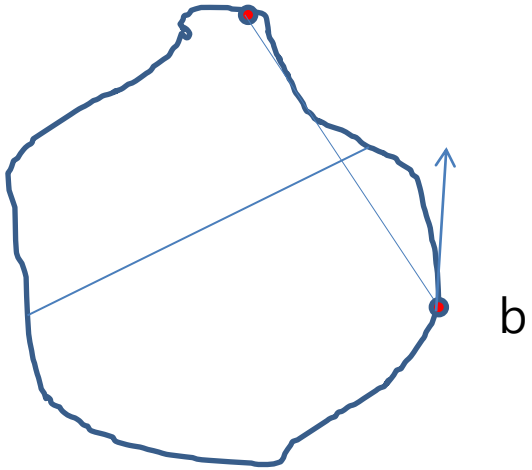




$\overline{MN} < \overline{NL}$

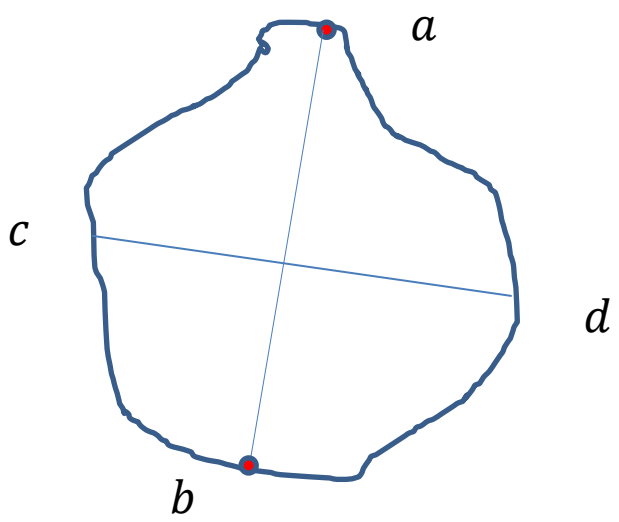


$\overline{MN} = \overline{NL}$

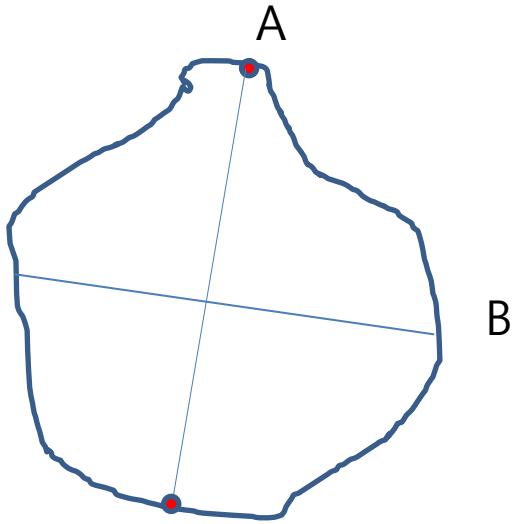


$\overline{MN} > \overline{NL}$

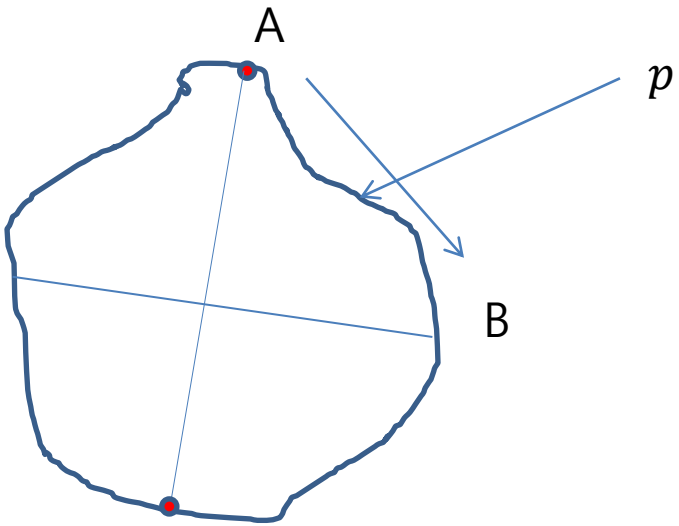
We can find b that $\overline{MN} = \overline{NL}$



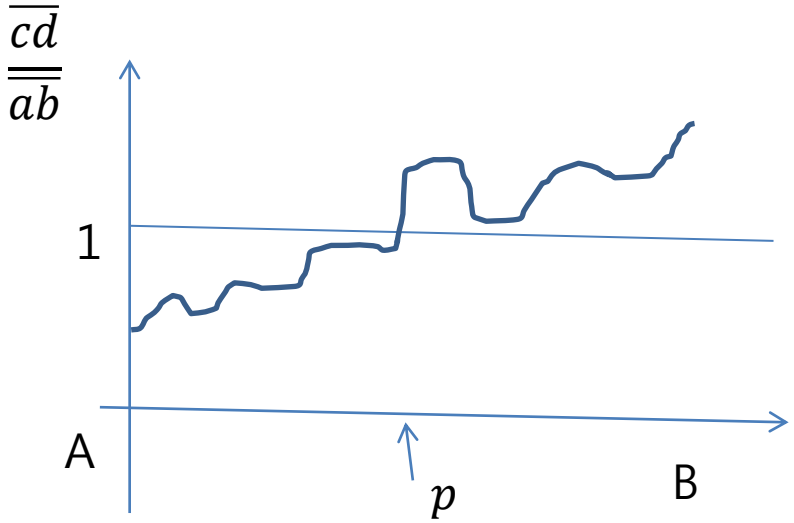
If $\overline{ab} = \overline{cd}$,
acbd make a square, and If $\overline{ab} \neq \overline{cd}$,



Move a from A to B



There's p that makes $\frac{\overline{cd}}{\overline{ab}}$=1



And pcbd make a square

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