



$$P\left\{m - z_{a/2} \frac{S}{\sqrt{n}} \leq \bar{X} \leq m + z_{a/2} \frac{S}{\sqrt{n}}\right\} = 1 - a$$

$\Leftrightarrow$

$$P\left\{\bar{X} - z_{a/2} \frac{S}{\sqrt{n}} \leq m \leq \bar{X} + z_{a/2} \frac{S}{\sqrt{n}}\right\} = 1 - a$$