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Exercise to Lecture 4

$h(t) = +1 \quad \forall \; t$ with $a \le t \le b$, $a, b \in \mathbb{R}$

$h(t) = -1$ otherwise

consider n points with labels $+$ or $-$

$n = 1 \Rightarrow 2$ options

1.

$\Rightarrow V_c \ge 1$

$n = 2 \Rightarrow 4$ options:

$\Rightarrow V_c \ge 2$

$n = 3$

consider 3 points like

$\Rightarrow$ cannot be shattered by only one interval

$\Rightarrow \underline{V_c = 2}$