- Break point of $\mathcal{H}$

- $m_{\mathcal{H}}(k) < 2^k$

- VC dimension of $\mathcal{H}$: $k-1$ (the most points $\mathcal{H}$ can shatter)

△ No break point $\Rightarrow$ $m_{\mathcal{H}}(N) = 2^N$
Any break point $\Rightarrow$ $m_{\mathcal{H}}(N)$ is polynomial in N

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on page 24   , N=4,
assume linear model

(can only be "white")