9. bolean function h: {-1,1} > {-1,1}

4 symmetric > value only depends on #{1}

if Let H= [h|h: symmetric bolean functions] Suppose for any next, sh = {x & {0,1} } h(x) = 1] (i.e. Santains all input vectors that will be mapped to 1 by hypothesis h) Lut V = [11...] 0...0] S= [vi | 0 \le i \le k] (i.e. the let thet/ contains vertor of all possible number of 15) (i.e. the set that enfant vertor  $h(V_{pi}) = |i=1,...,d$ , which is sh diminating equivalent one
ander permutation) 5= {Vp1, Vp2, ..., Vpa} = S -9 SNSh= 5' 1 |s|=k+1 1. (s'| ≤k+1 This means that & a set more than for pints that can be shaffered To show that the seel of lets print can be shoftered, we can constrait symmetric Buslen function:  $h(\vec{x}) = \begin{cases} y_0 & \text{if } \vec{x} \text{ equiv. } t \cdot \cdot \cdot \vec{v}_0 \\ y_1 & \text{if } \vec{x} \text{ equiv. } t \cdot \cdot \vec{v}_1 \end{cases}$ rhow fie [0,1] to [= 0,...,k

Thurstore, duc(1)= kr/ A.