Consider a situation when we randomly choose (k-Dpoints in the interval [D, 1-kc]. So suppose theese points when sorted in is noveasing order are y, y, i. yk-, and let

Now consider  $\chi_i = i \cdot c + y_i$ . We see that  $y_i - \chi_{(i-1)} = c + (y_i - y_i)$ 

So randomly choosing (K-1) points in the interval [0, 1-kc] correspondingly generates
randomly choosen points
(+1), which
in the interval [b, 1], between any 2 consecutive points dist

So the probability is

(t-1)

= Volume of a dimensional cube of size (t-)

Volume of (K-1) dimensional cube of size 1

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So by scaling argument we can say answer is

= (tkc) for kc =