## KMP dry run

string= "abcxabcdabxabcdabcdabcy"

pattern= d'abcdabcy" lps: 00001230 01234567

 $\chi \neq \dot{\zeta} \Rightarrow (\dot{j} \neq 0) \Rightarrow \dot{j} = 2ps(\dot{z}-1)$ 

string= "abcxabcdabxabcdabcdabcy"

pattern= "abcdabcy" lps: 00001230 01 234567

x + (=) j = lp [j-1]



string= "abcxabcdabxabcdabcdabcy" pattern= "abcdabcy" lps: 00001230 01 234567 x + 0 (j=0) La i+1

string= "abcxabcdabxabcdabcdabcy" pattern=i"abcdabcy" lps: 00001230 01234567 

string= "abcxabcdabxabcdabcdabcy" pattern= "abcdabcy"

lps: 0001230

1 234563

We have a match at i-8=23-8=15