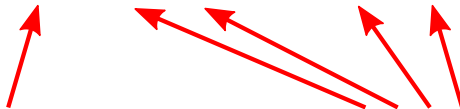


Ababab ... abaB



this occurs with
probability $(1-p)$

each of these occur
with probability p