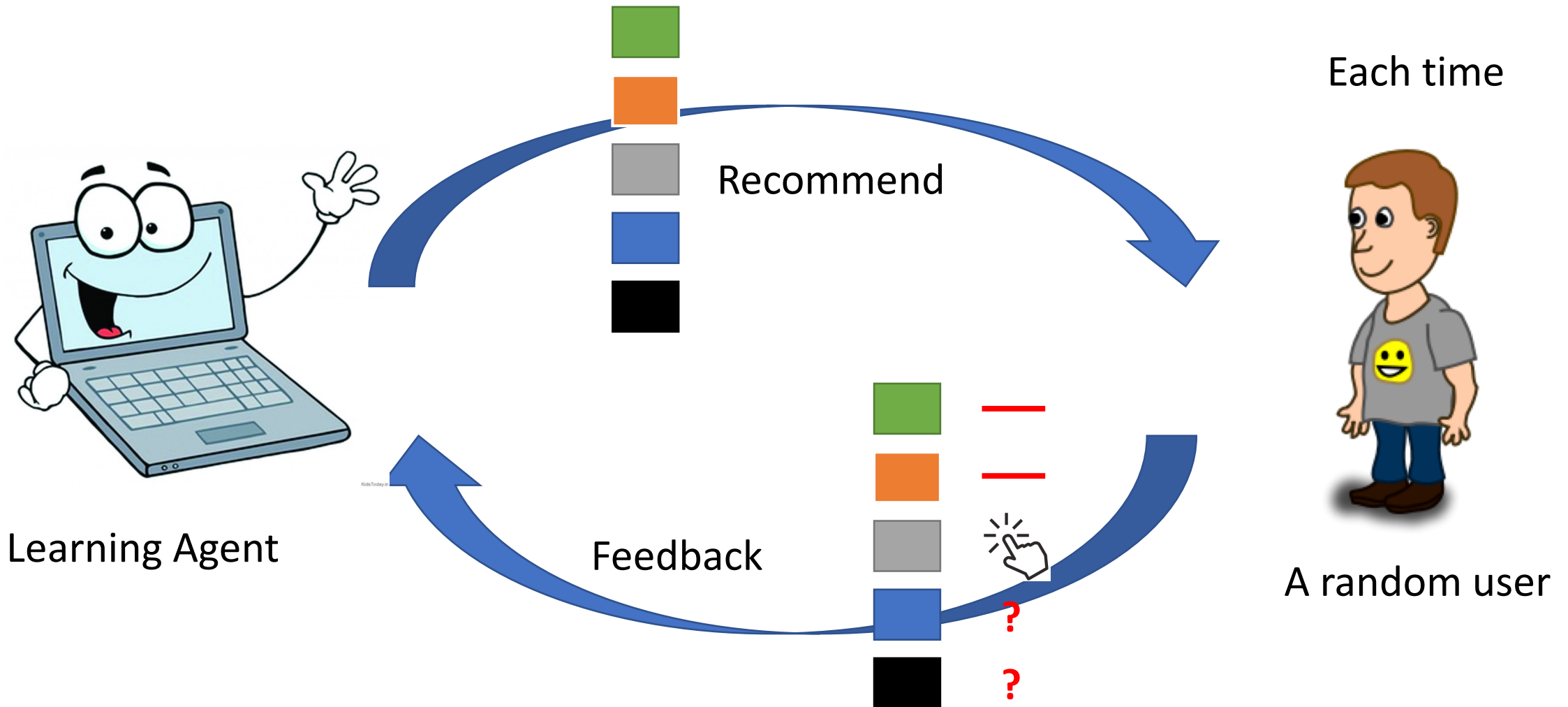


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Each time

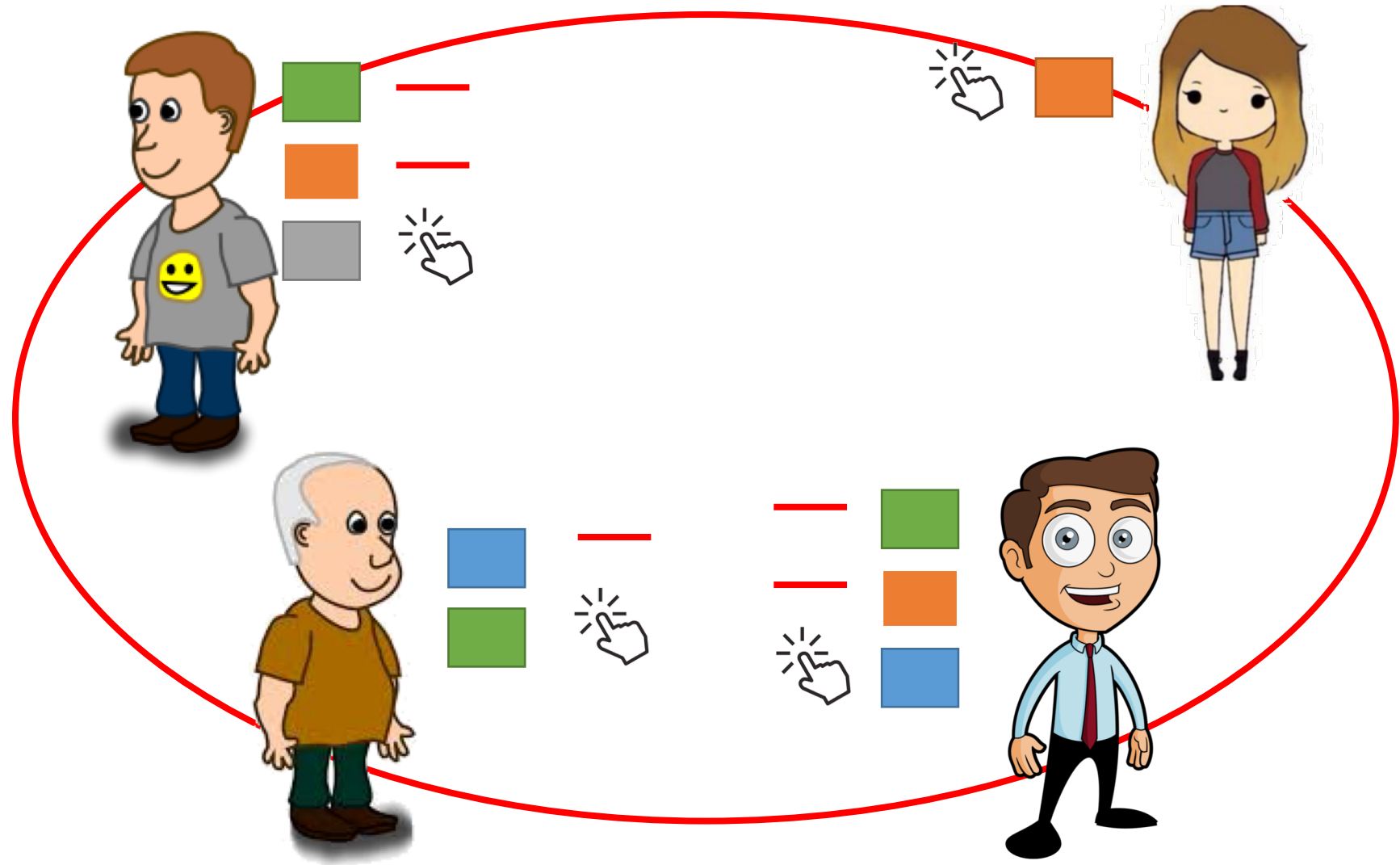


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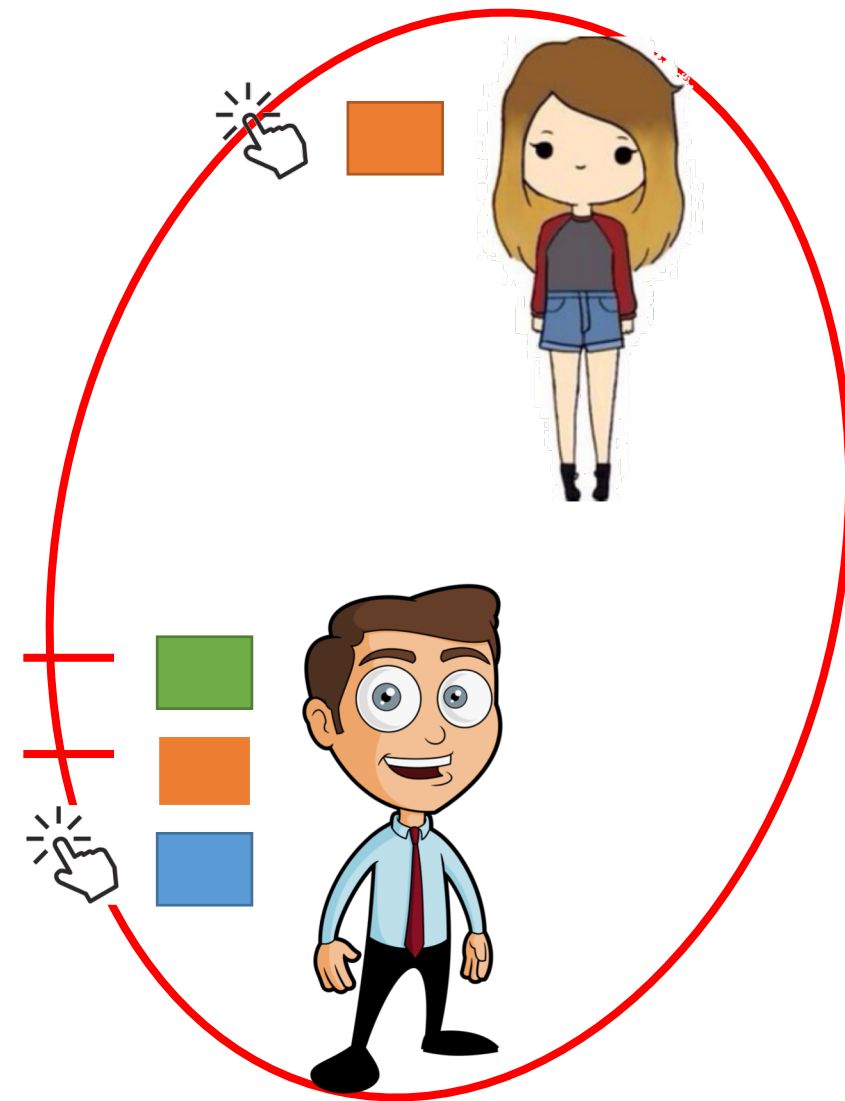
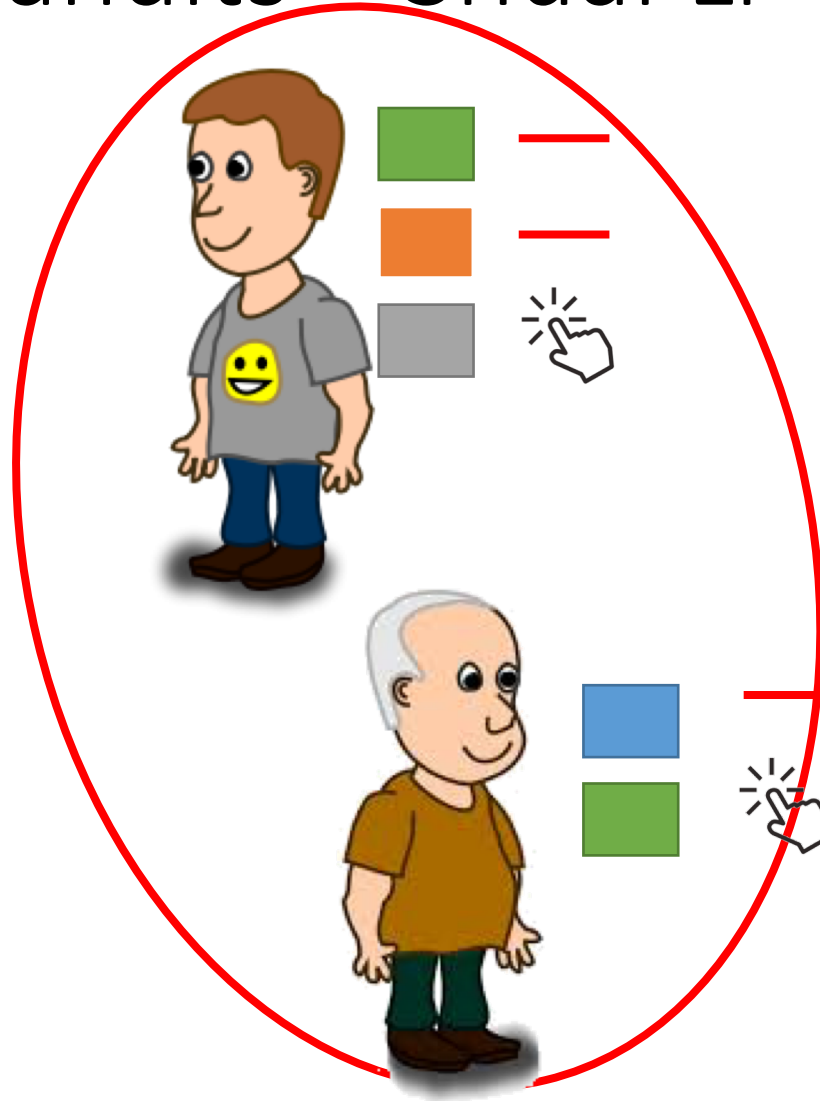


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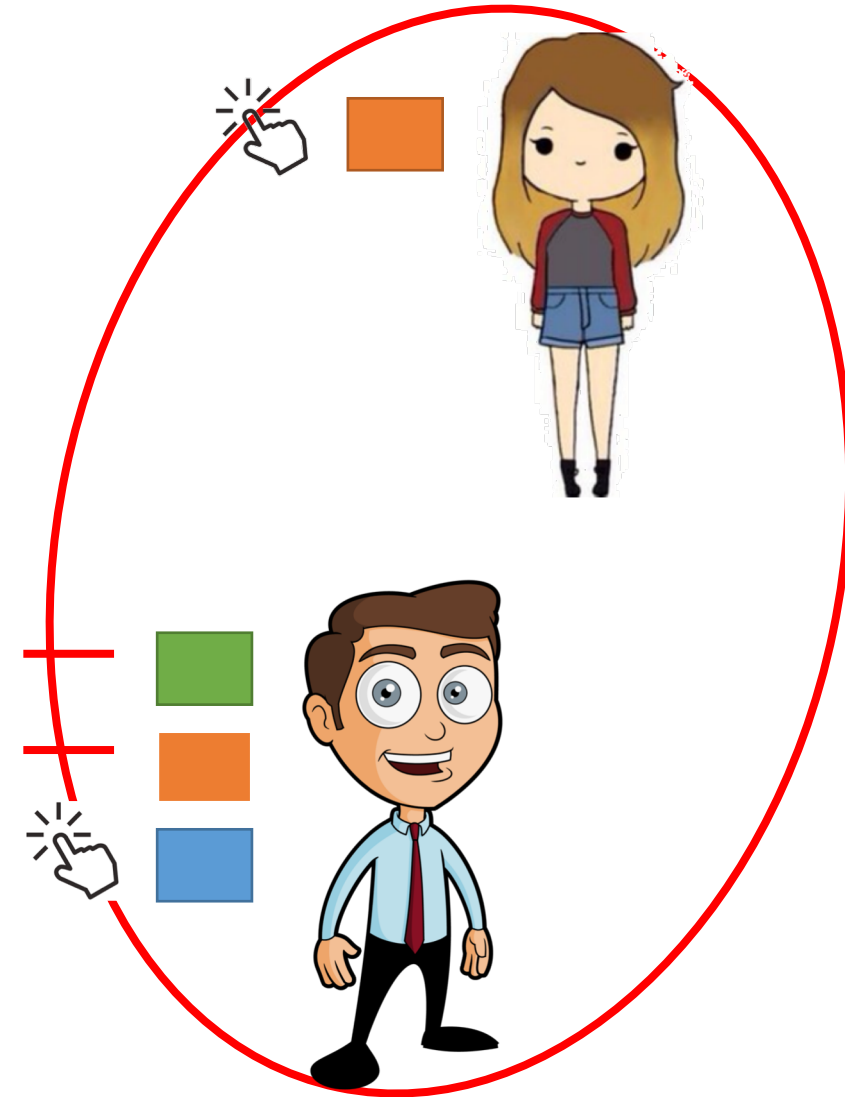
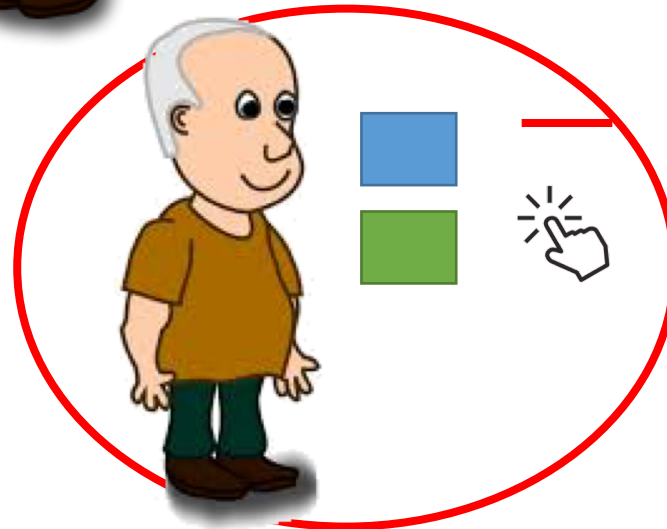
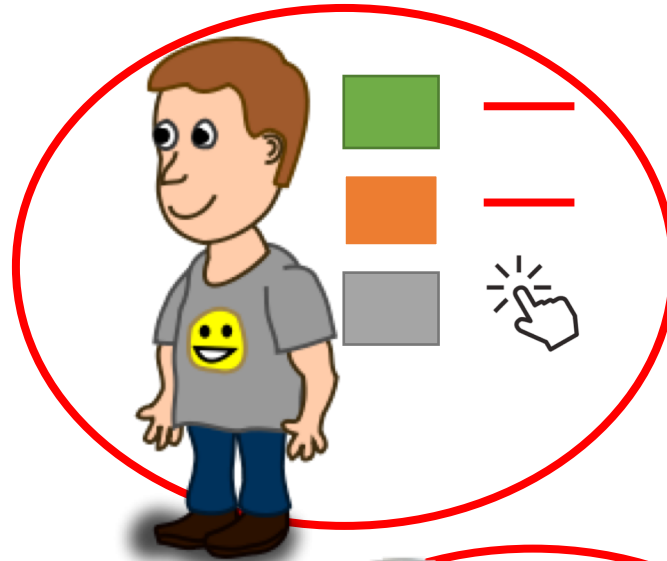


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- We bring up an algorithm **CLUB-cascade** to solve this problem and prove a regret bound  $R(T) = O(\sqrt{mT} \log T)$ , where
  - $m$  is the number of clusters

