

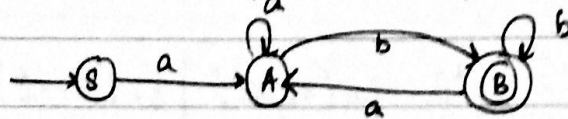
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AT TUTORIAL NO. 9

Q.1] Write a necessary function for the given automata.



Ans: Functions:

S(x) {

```

  if (x == 'a') goto A(next);
  else print("Error"); }

```

A(s) {

```

  if (x == 'a') goto A(next);
  else print("Error"); }

```

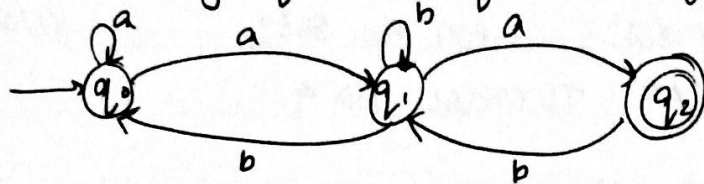
B(x) {

```

  if (x == 'a') goto A(next);
  else if (x == 'b') goto B(next);
  else if (end) print("Accept");
  else print("Error"); }

```

Q.2] Write a necessary function for the given automata.



Ans: Functions:

$q_0(x)$ {

if ($x == 'a'$) goto $q_0(next)$ | $q_1(next)$;
else print("Error"); }

$q_1(x)$ {

if $x == 'a'$ goto $q_1(next)$;
else if ($x == 'b'$) goto $q_1(next)$;
else print("Error"); }

$q_2(x)$ {

if ($x == 'a'$) goto $q_2(next)$;
else print("Error"); }