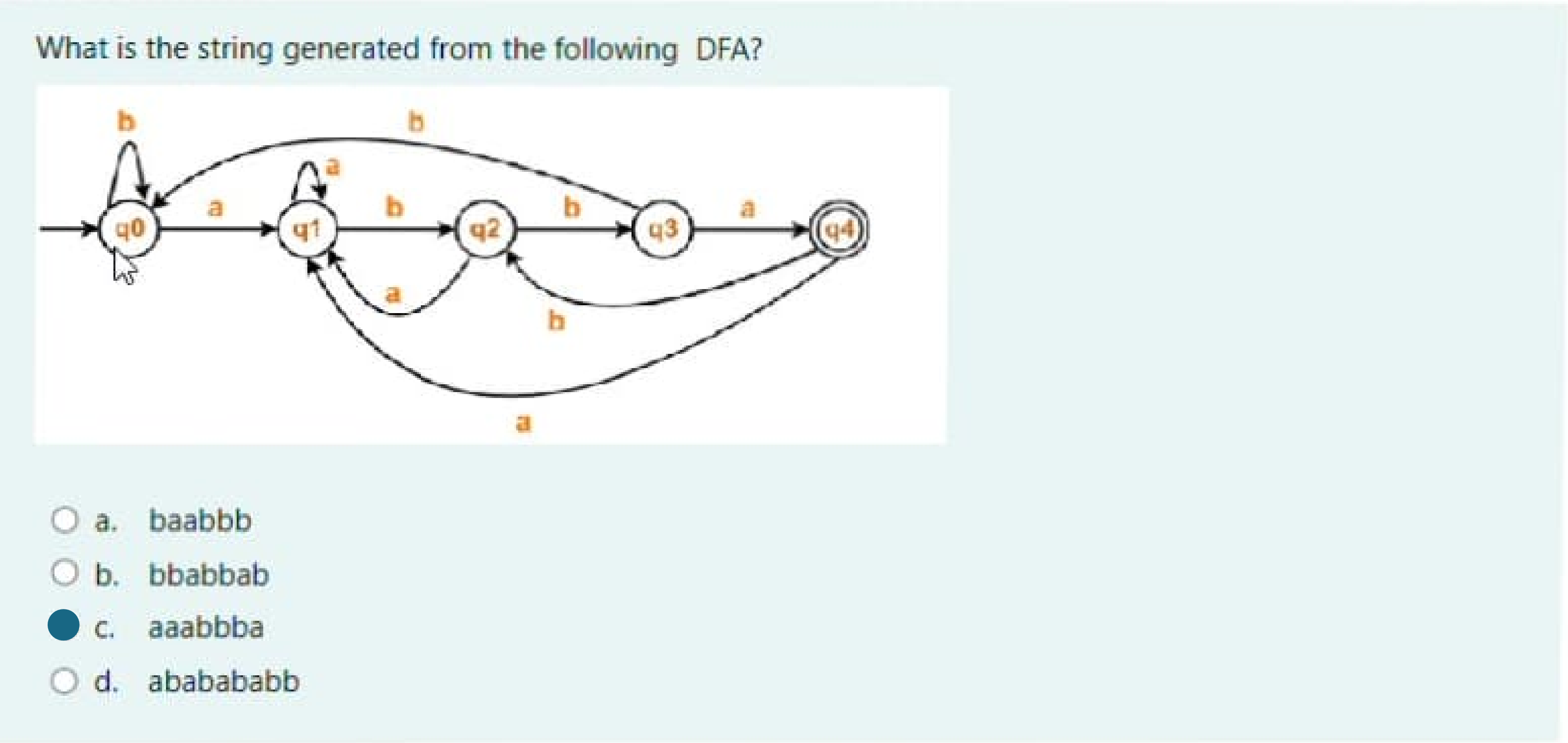


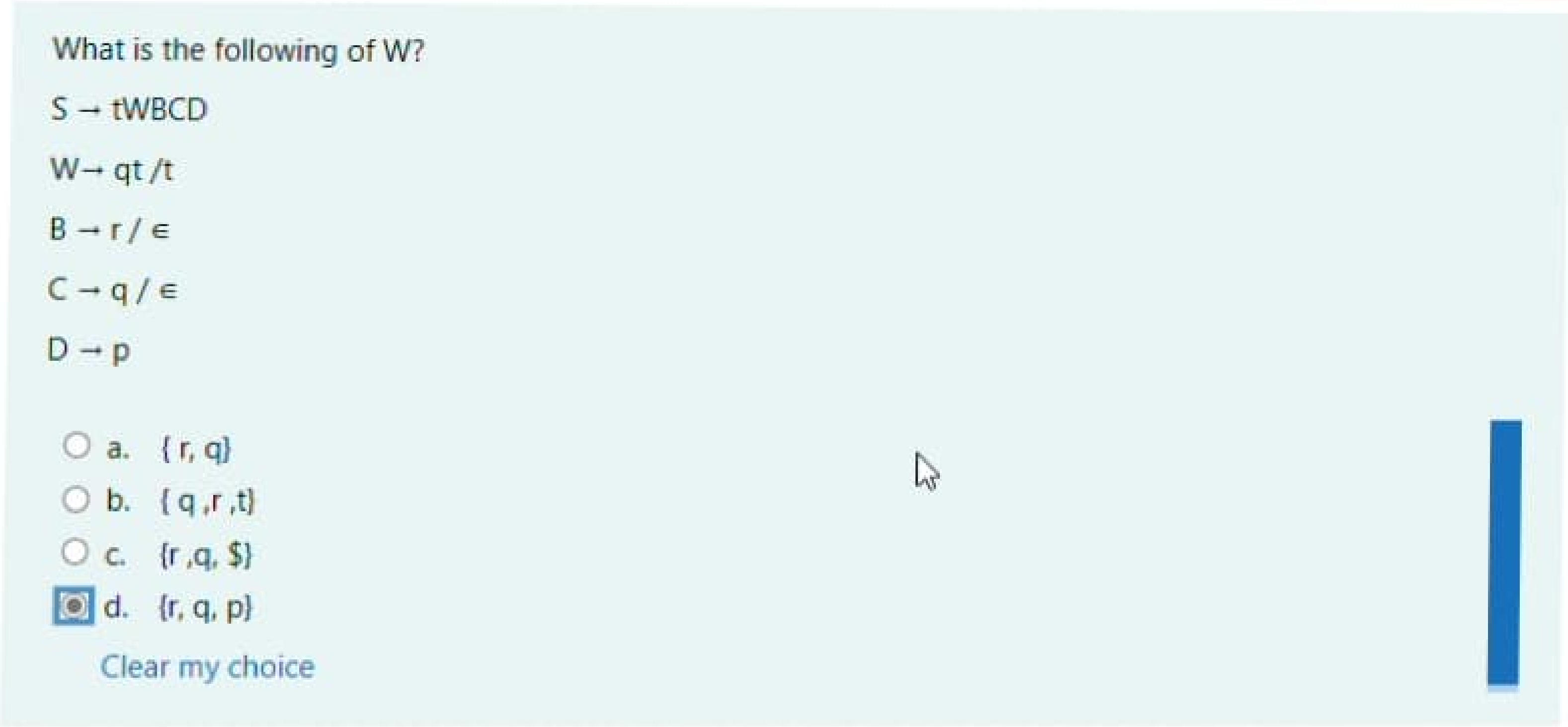
What is the string generated from the following DFA?

○ a. baabbb

○ b. bbabbab

● c. aaabbba

○ d. abababb



What is the following of W?

S → tWBCD

W→ qt /t

B → r / ∈

C → q / ∈

D → p

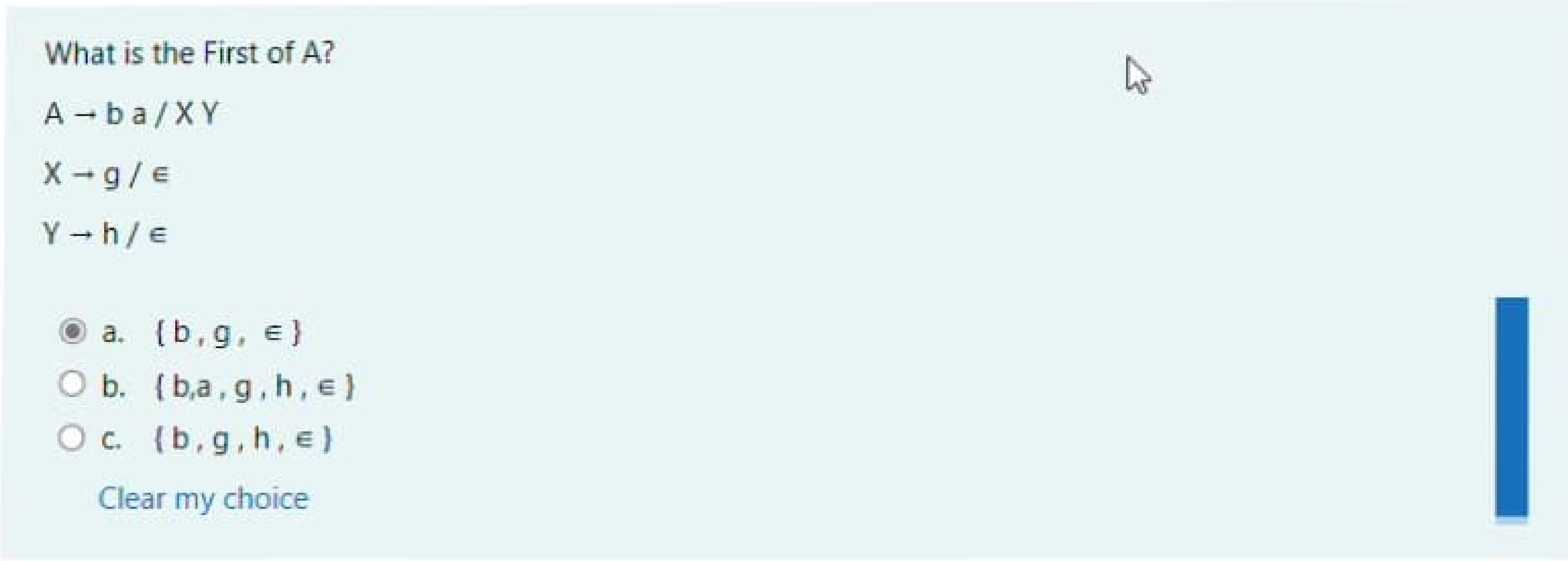
○ a. { r, q}

○ b. { q ,r ,t}

○ c. {r ,q, $}

● d. {r, q, p}

Clear my choice



What is the First of A?

$A \rightarrow b\ a\ /\ X\ Y$

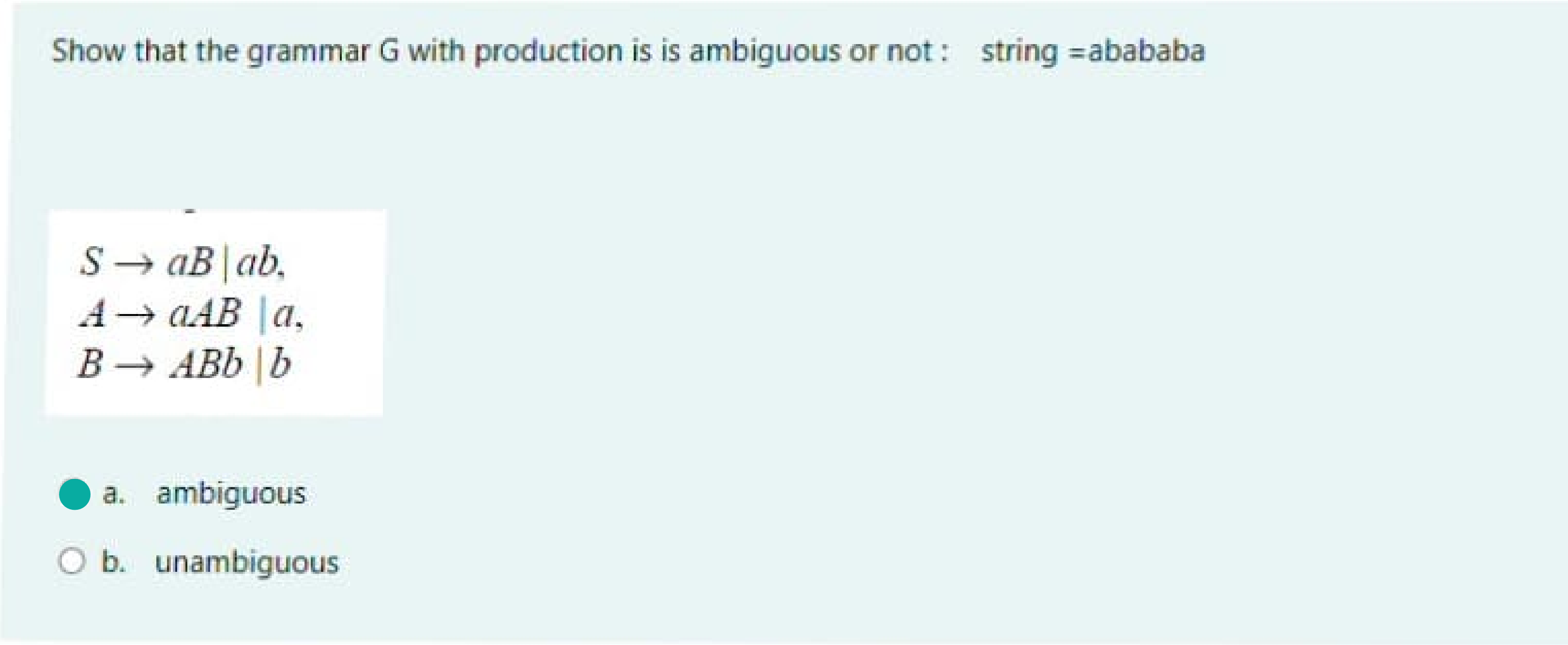
$X \rightarrow g\ /\ \epsilon$

$Y \rightarrow h\ /\ \epsilon$

● a. $\{ b , g , \epsilon \}$

○ b. $\{ b,a , g , h , \epsilon \}$

○ c. $\{ b , g , h , \epsilon \}$

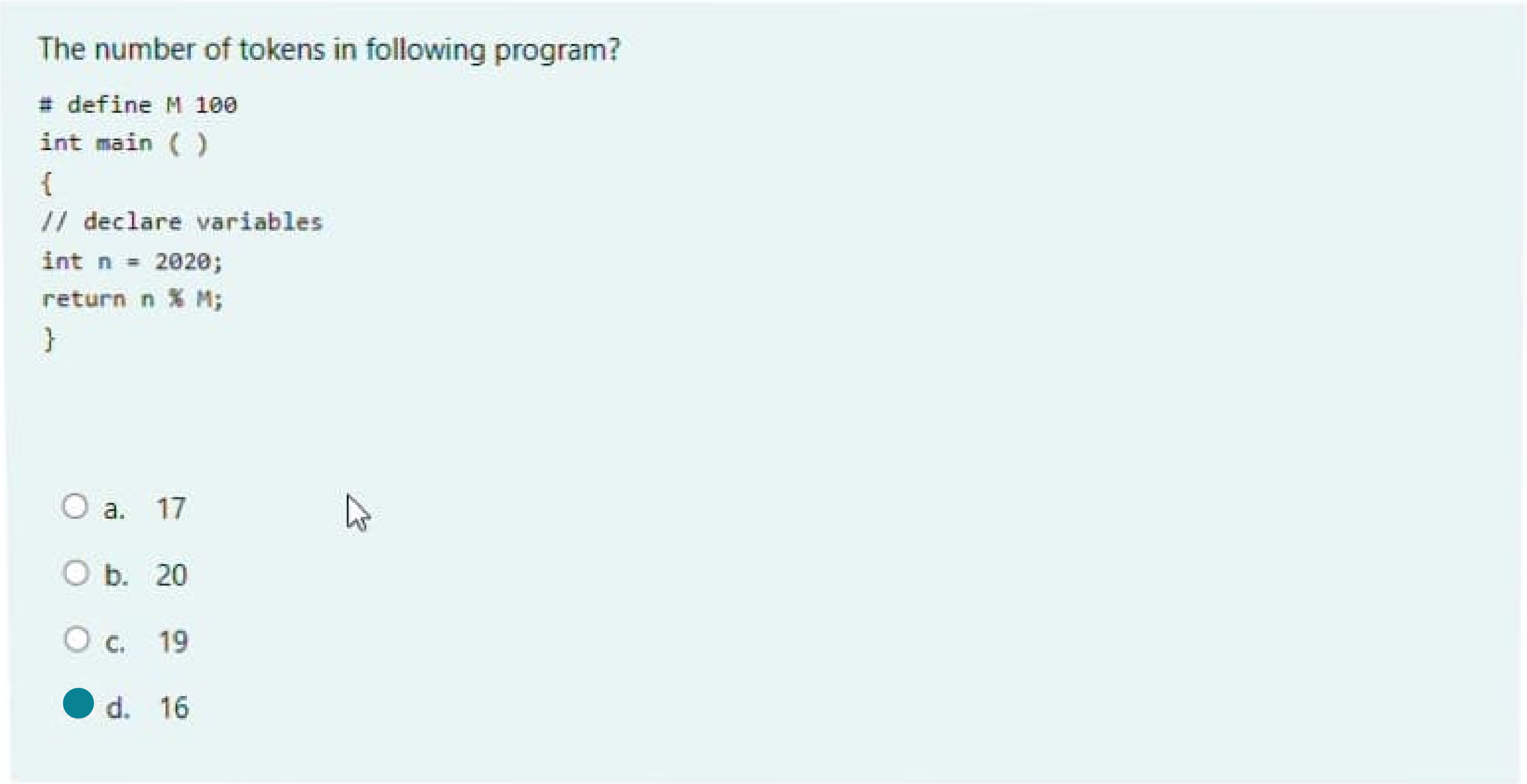


Show that the grammar G with production is is ambiguous or not : string =abababa

$$
\begin{aligned}
S &\rightarrow aB \mid ab, \\
A &\rightarrow aAB \mid a, \\
B &\rightarrow ABb \mid b
\end{aligned}
$$

● a. ambiguous

○ b. unambiguous



The number of tokens in following program?

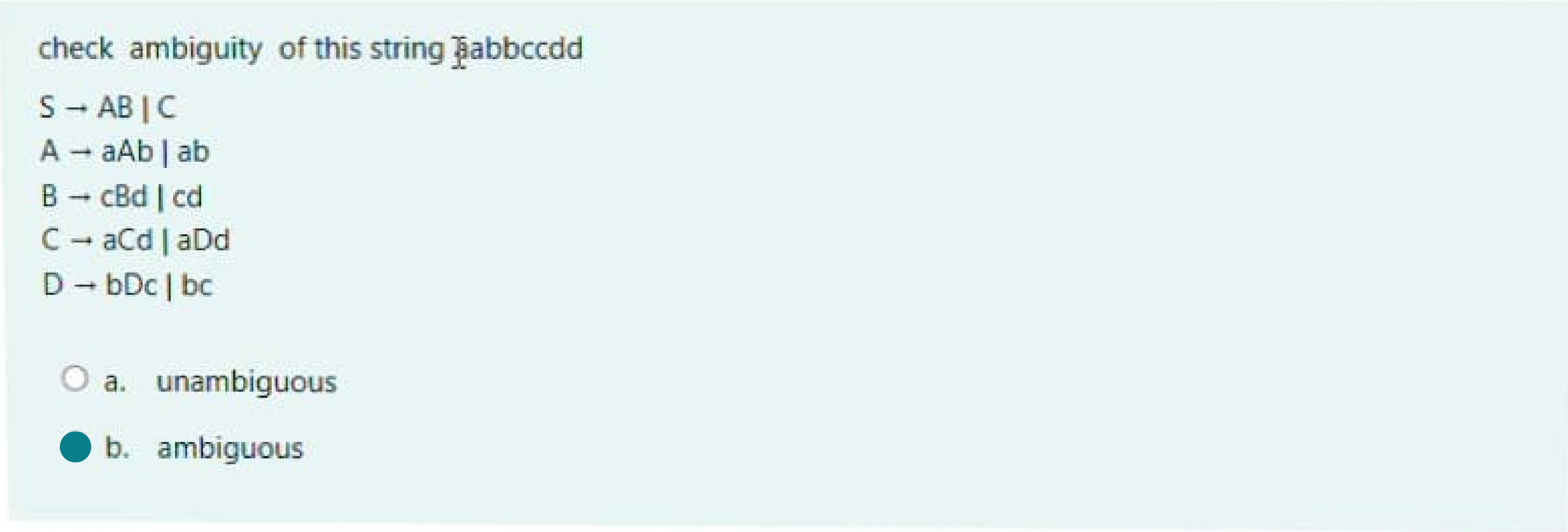
```
# define M 100
int main ( )
{
// declare variables
int n = 2020;
return n % M;
}
```

○ a. 17

○ b. 20

○ c. 19

● d. 16



check ambiguity of this string aabbccdd

S → AB | C

A → aAb | ab

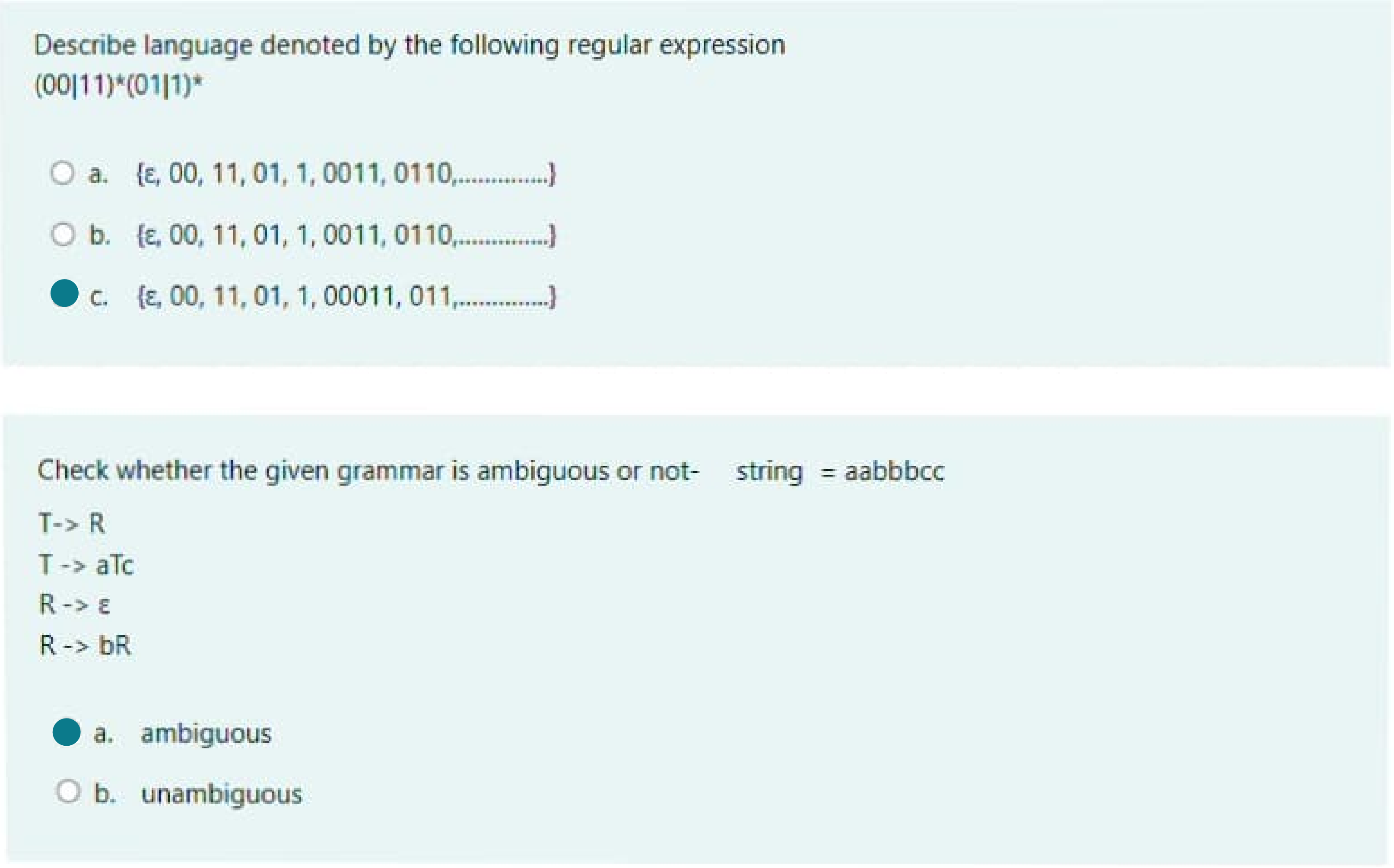
B → cBd | cd

C → aCd | aDd

D → bDc | bc

○ a. unambiguous

● b. ambiguous



Describe language denoted by the following regular expression
(00|11)*(01|1)*

○ a. {ε, 00, 11, 01, 1, 0011, 0110,..............}

○ b. {ε, 00, 11, 01, 1, 0011, 0110,..............}

● c. {ε, 00, 11, 01, 1, 00011, 011,..............}

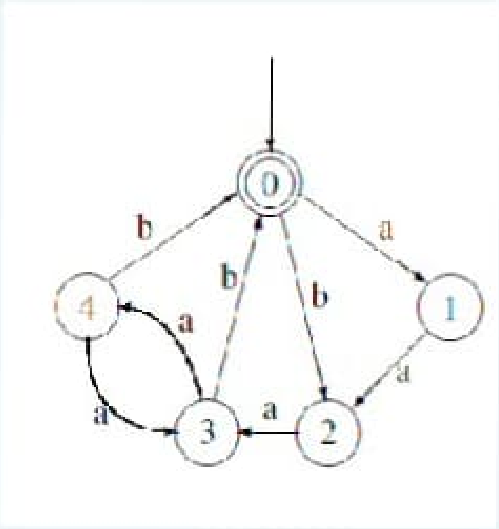
Check whether the given grammar is ambiguous or not- string = aabbbcc

T-> R
T -> aTc
R -> ε
R -> bR

● a. ambiguous

○ b. unambiguous

what is the output after minimizing the following DFA



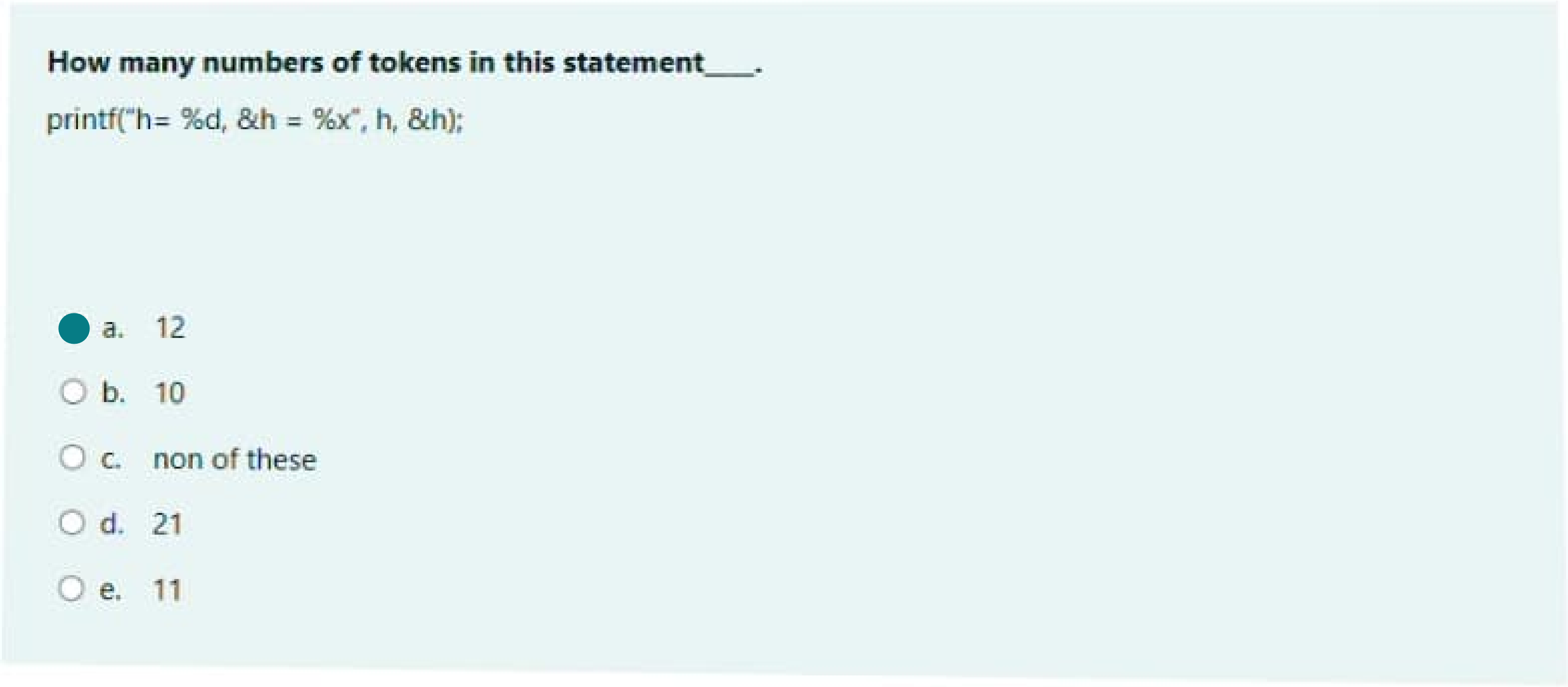
○ a. {1,2}{3,4}{0}

● b. {1}{2,3,4}{0}

○ c. {1,2,3}{4}{0}

○ d. {2,3,4}{1}{0}

○ e. {1,3,4}{2}{0}



How many numbers of tokens in this statement____.

```
printf(“h= %d, &h = %x”, h, &h);
```

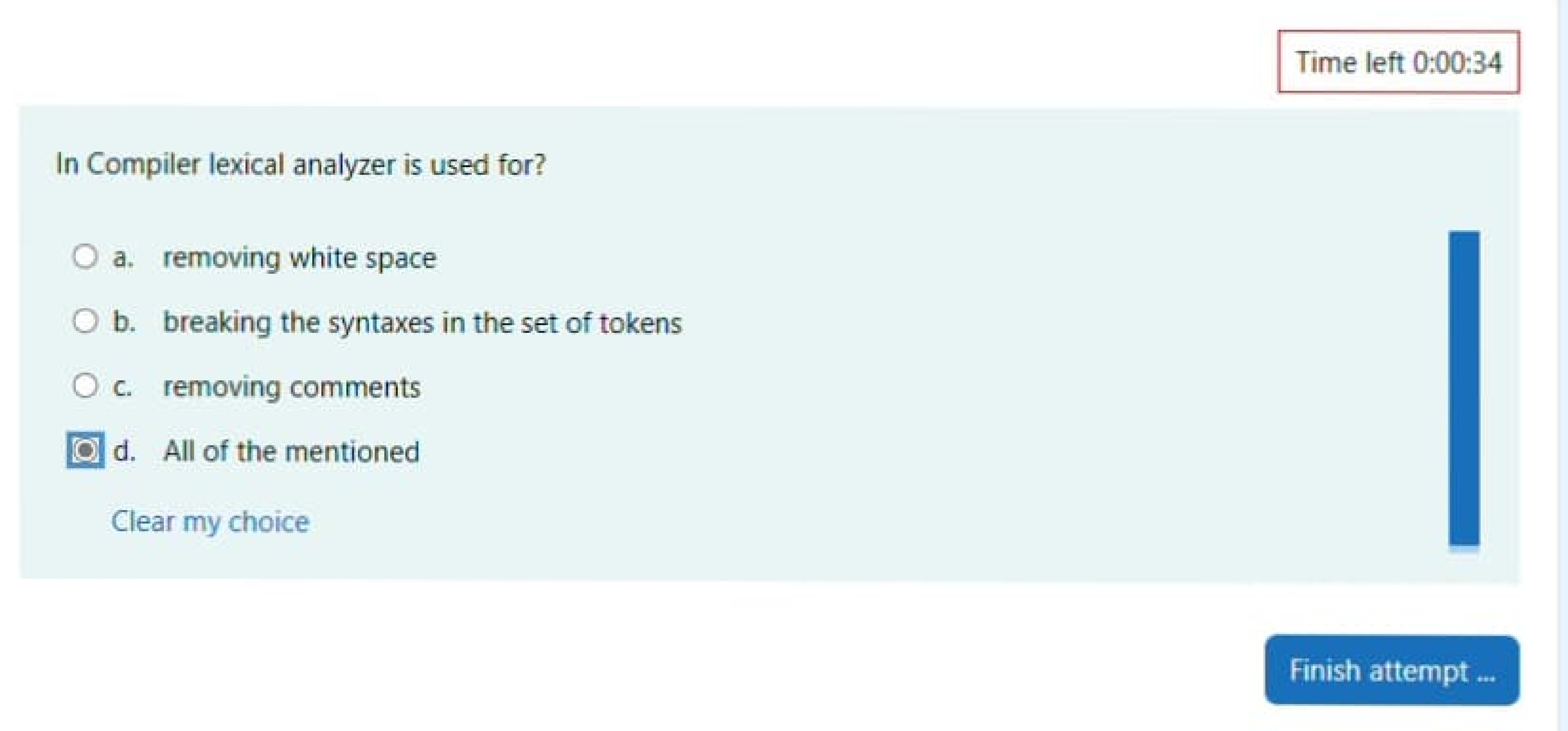
● a. 12

○ b. 10

○ c. non of these

○ d. 21

○ e. 11



Time left 0:00:34

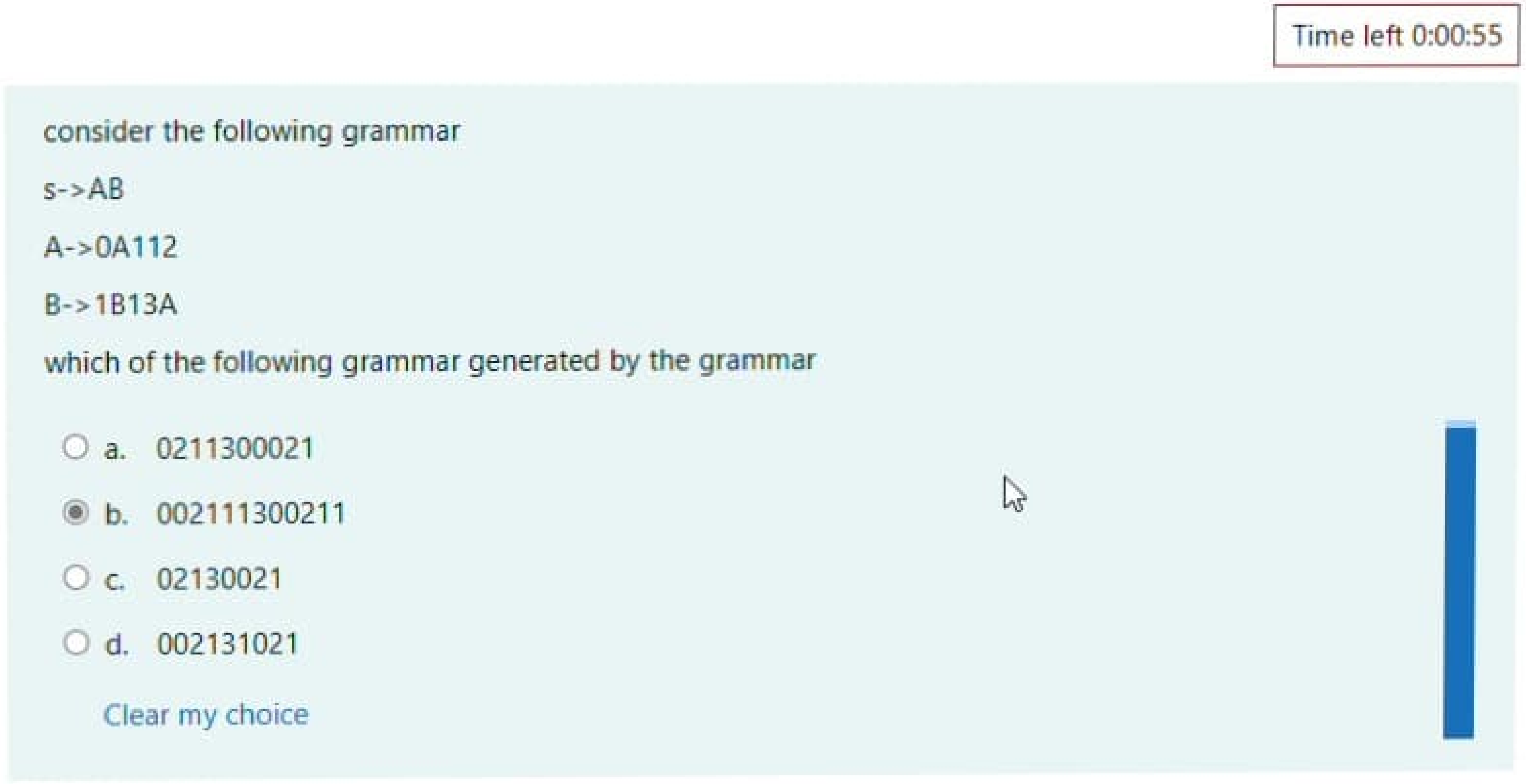
In Compiler lexical analyzer is used for?

○ a. removing white space

○ b. breaking the syntaxes in the set of tokens

○ c. removing comments

● d. All of the mentioned



Time left 0:00:55

consider the following grammar

s->AB

A->0A112

B->1B13A

which of the following grammar generated by the grammar

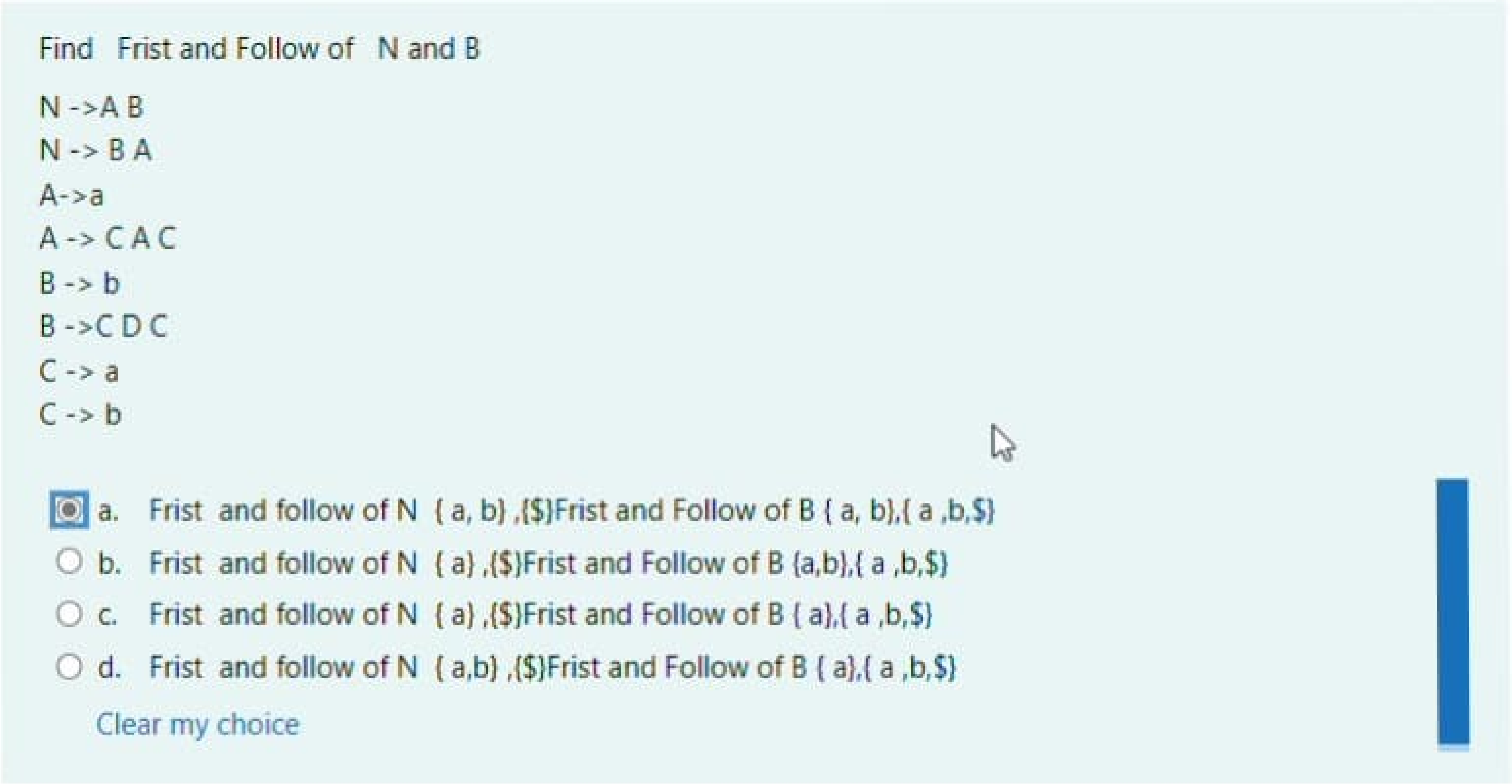
○ a. 0211300021

● b. 002111300211

○ c. 02130021

○ d. 002131021

Clear my choice



Find Frist and Follow of N and B

N ->A B

N -> B A

A->a

A -> C A C

B -> b

B ->C D C

C -> a

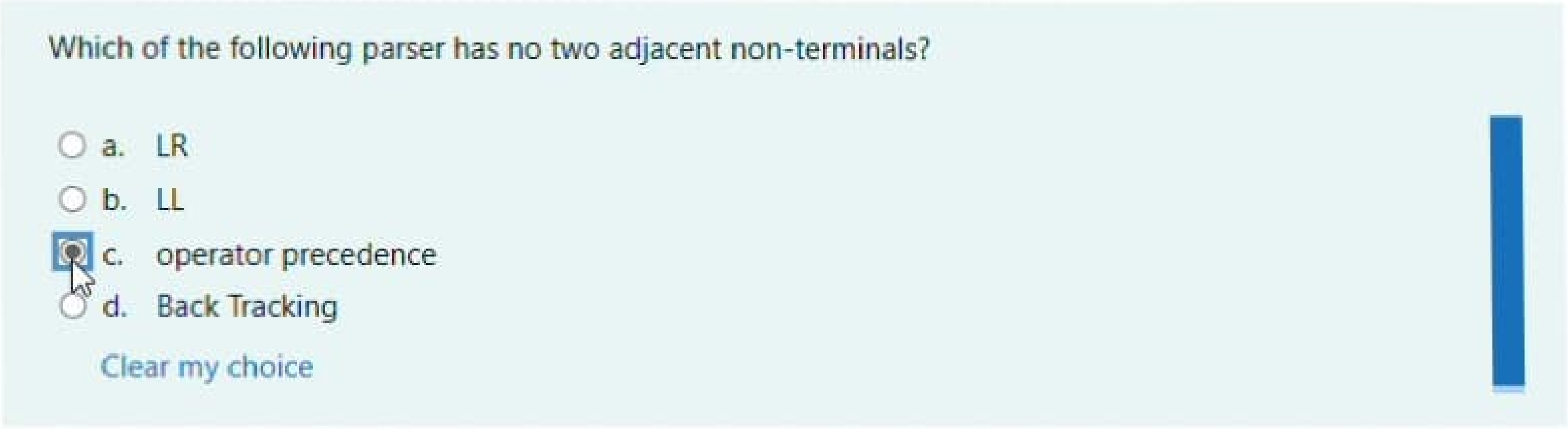
C -> b

● a. Frist and follow of N { a, b} ,{$}Frist and Follow of B { a, b},{ a ,b,$}

○ b. Frist and follow of N { a} ,{$}Frist and Follow of B {a,b},{ a ,b,$}

○ c. Frist and follow of N { a} ,{$}Frist and Follow of B { a},{ a ,b,$}

○ d. Frist and follow of N { a,b} ,{$}Frist and Follow of B { a},{ a ,b,$}



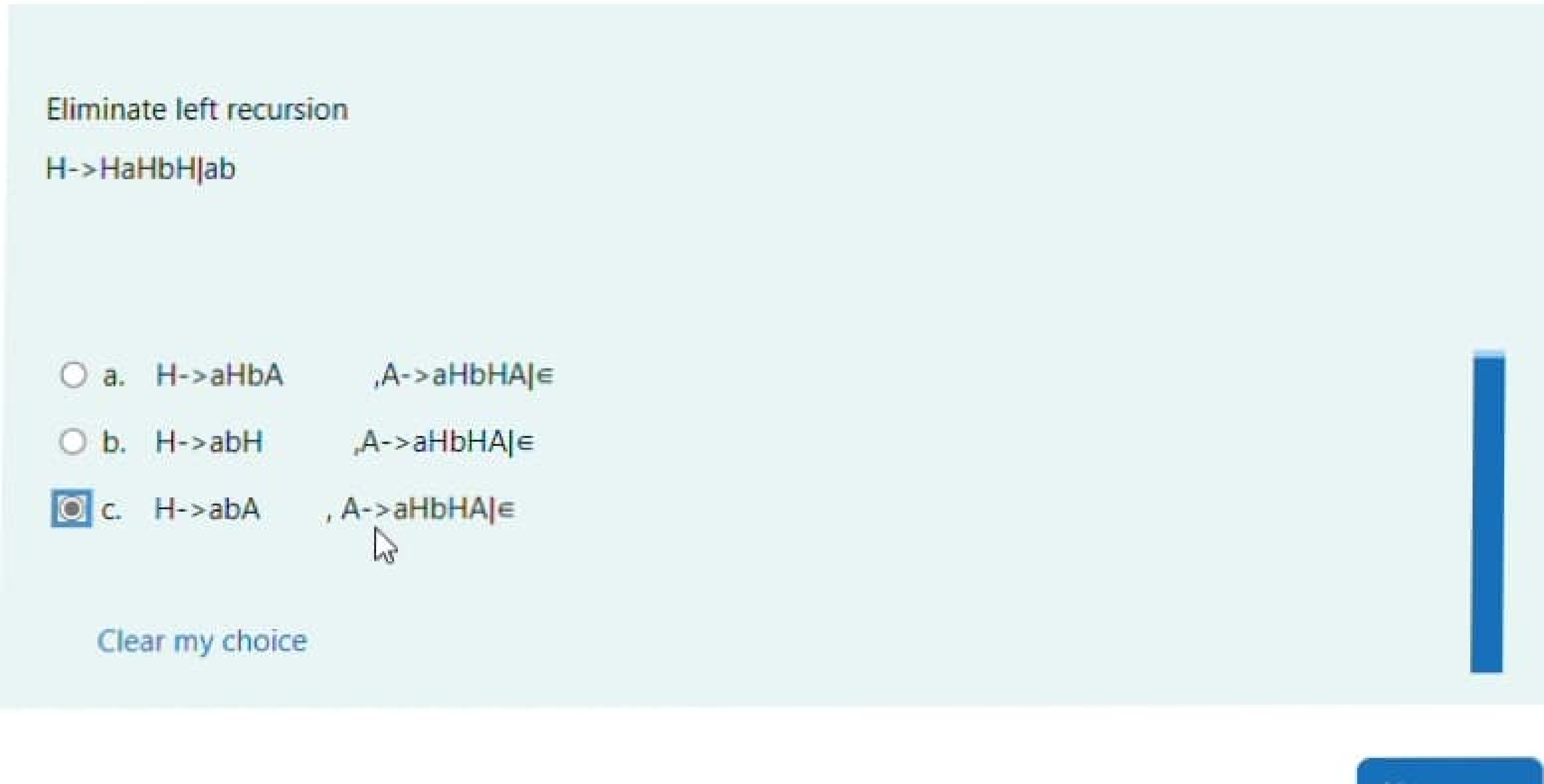
Which of the following parser has no two adjacent non-terminals?

○ a. LR

○ b. LL

● c. operator precedence

○ d. Back Tracking



Eliminate left recursion

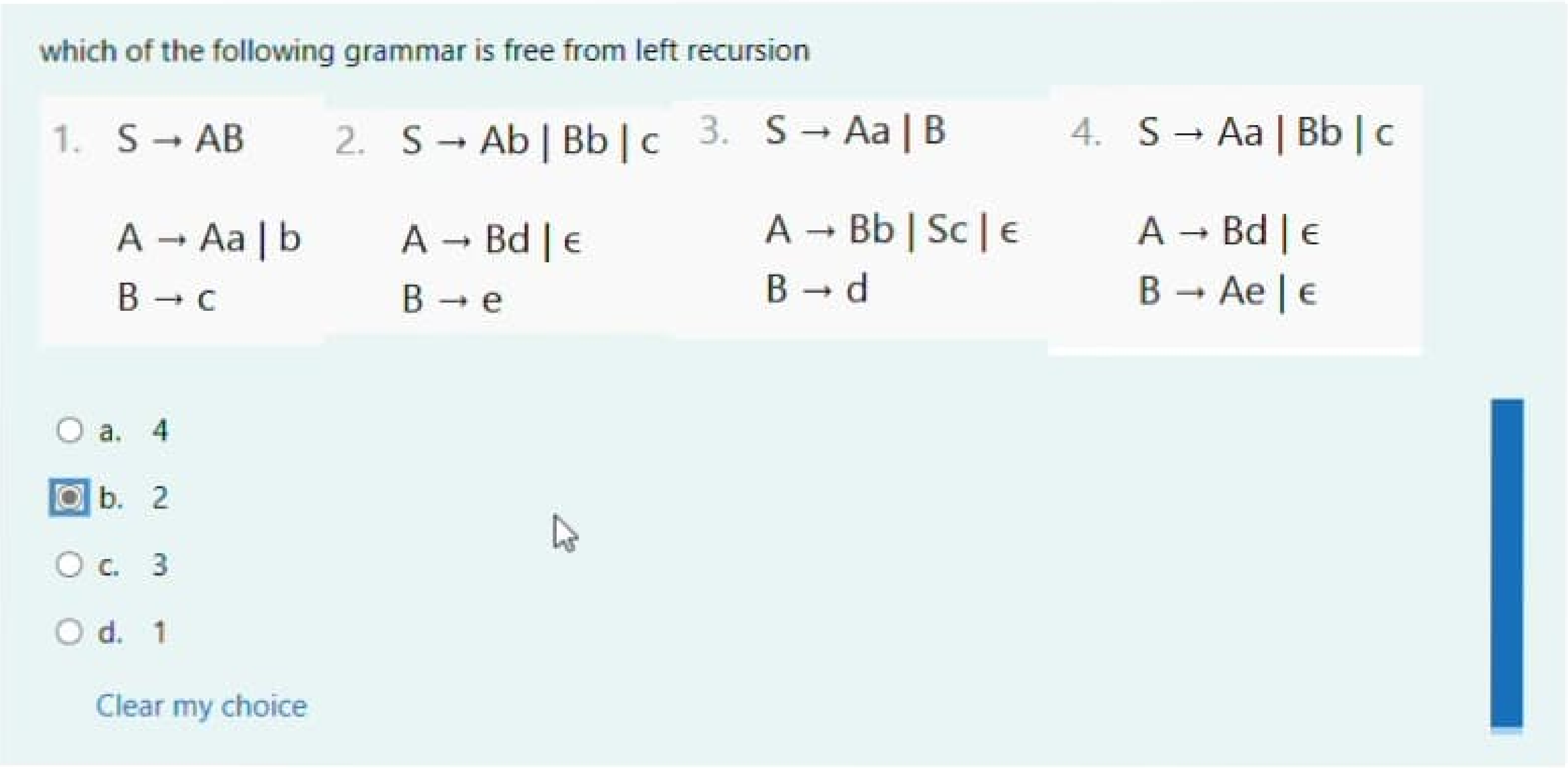
H->HaHbH|ab

○ a. H->aHbA ,A->aHbHA|ϵ

○ b. H->abH ,A->aHbHA|ϵ

● c. H->abA , A->aHbHA|ϵ

Clear my choice



which of the following grammar is free from left recursion

1. $S \rightarrow AB$

   $A \rightarrow Aa \mid b$

   $B \rightarrow c$

2. $S \rightarrow Ab \mid Bb \mid c$

   $A \rightarrow Bd \mid \epsilon$

   $B \rightarrow e$

3. $S \rightarrow Aa \mid B$

   $A \rightarrow Bb \mid Sc \mid \epsilon$

   $B \rightarrow d$

4. $S \rightarrow Aa \mid Bb \mid c$

   $A \rightarrow Bd \mid \epsilon$

   $B \rightarrow Ae \mid \epsilon$

○ a. 4

● b. 2

○ c. 3

○ d. 1

Clear my choice