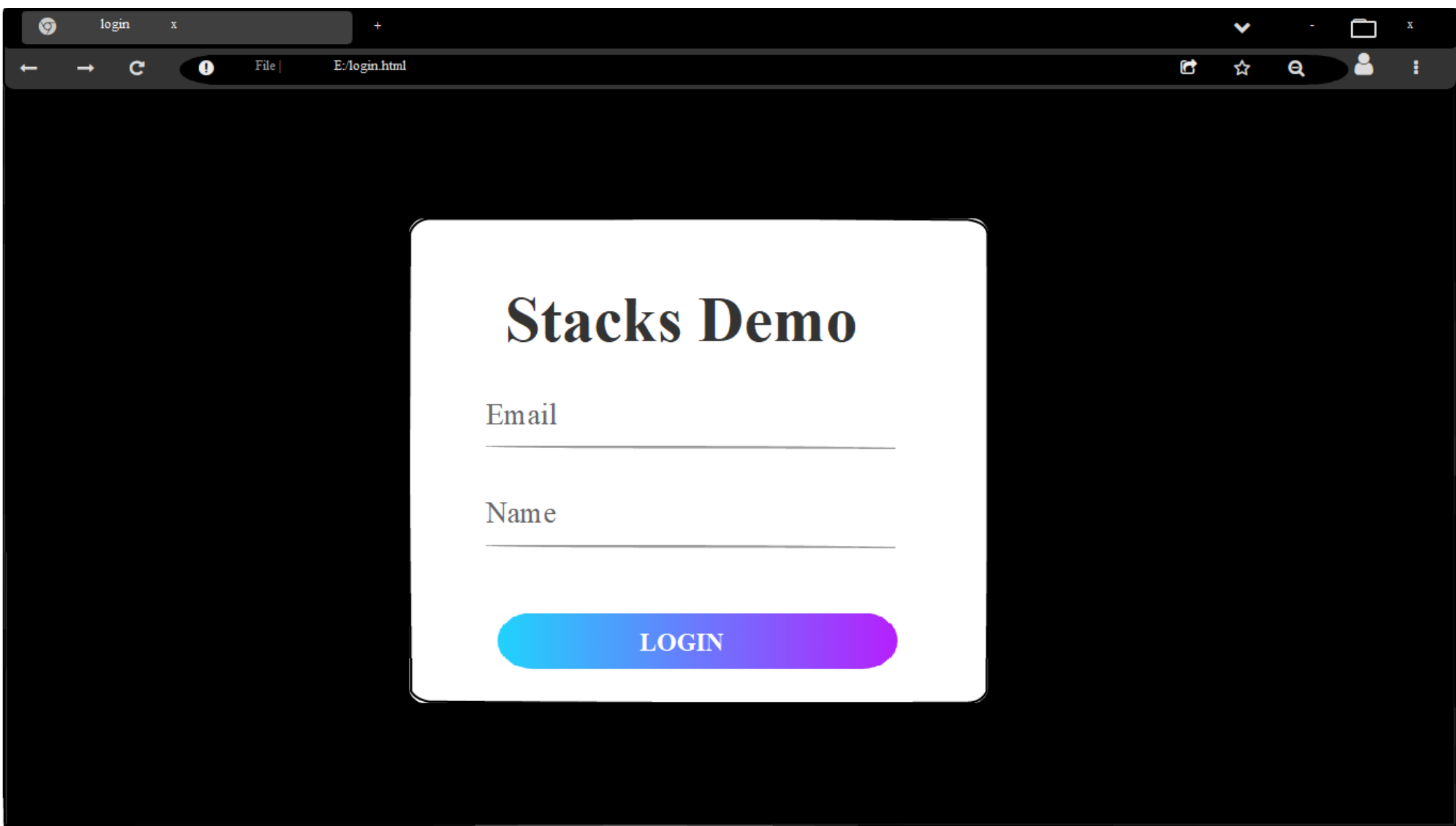


Graphical Representation Of Stack Operations

Team project members:

Name	-	SRN
Karthik Sarode	-	PES1PG21CA030
M. Sasikumar	-	PES1PG21CA038
Narayana .P	-	PES1PG21CA048
Karthik R Bhat	-	PES1PG21CA031





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x



x



File |

E:/login.html



Stacks Demo

Email

stackdemo@gmail.com

Name

stack team member

LOGIN

Graphical Representation Of Stack Operations

[About Us](#)

Push and Pop

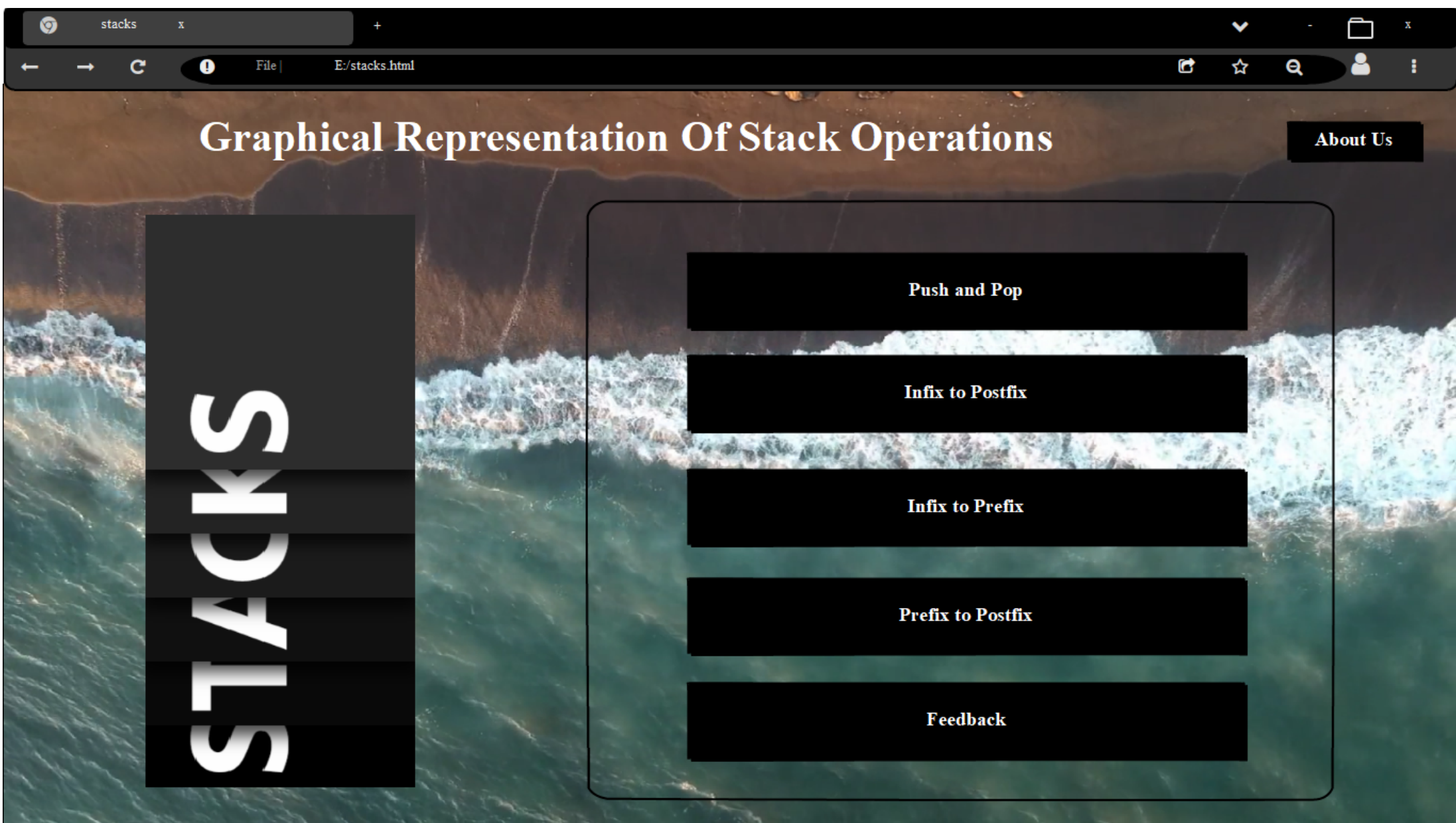
Infix to Postfix

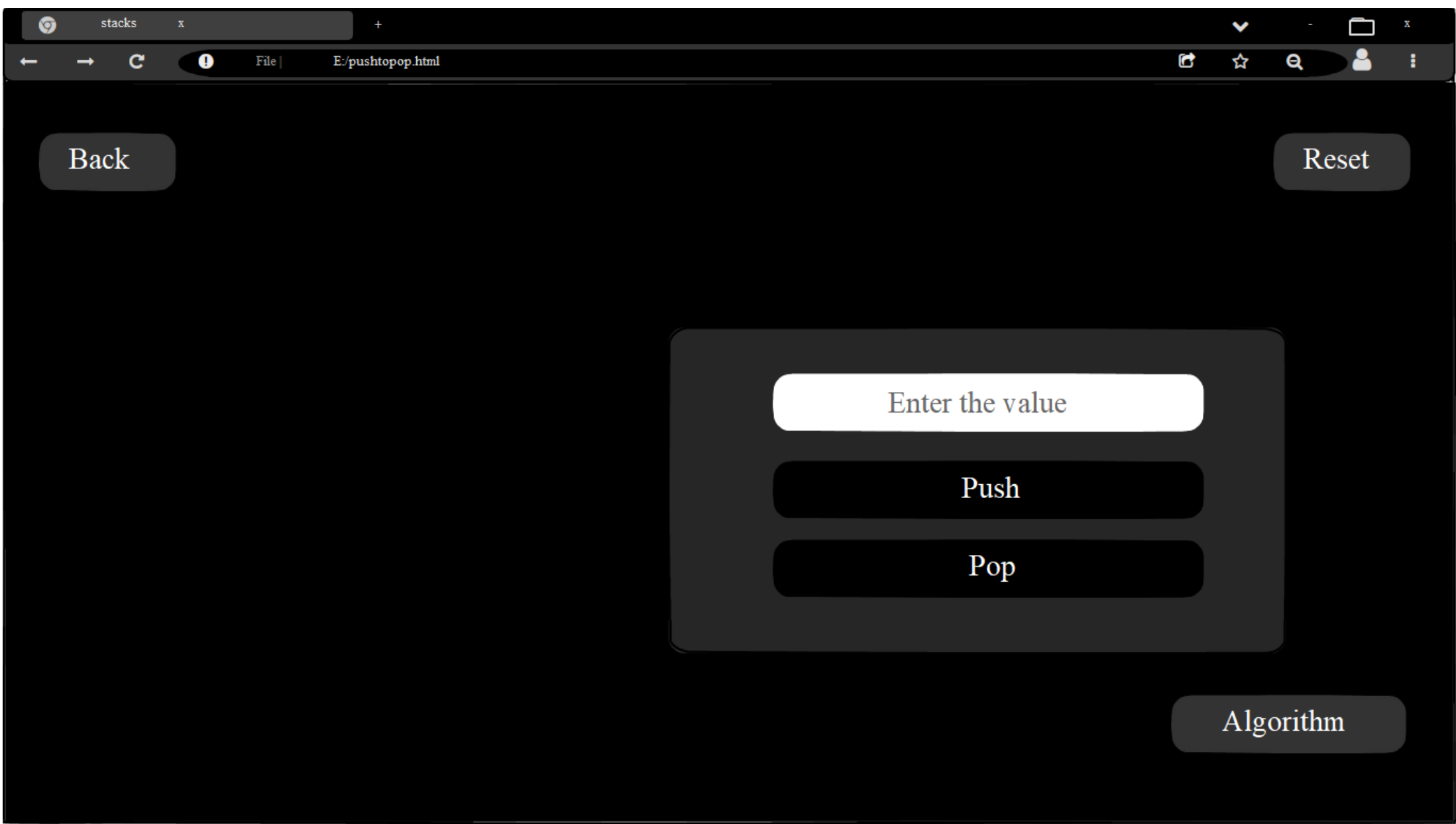
Infix to Prefix

Prefix to Postfix

Feedback

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Reset

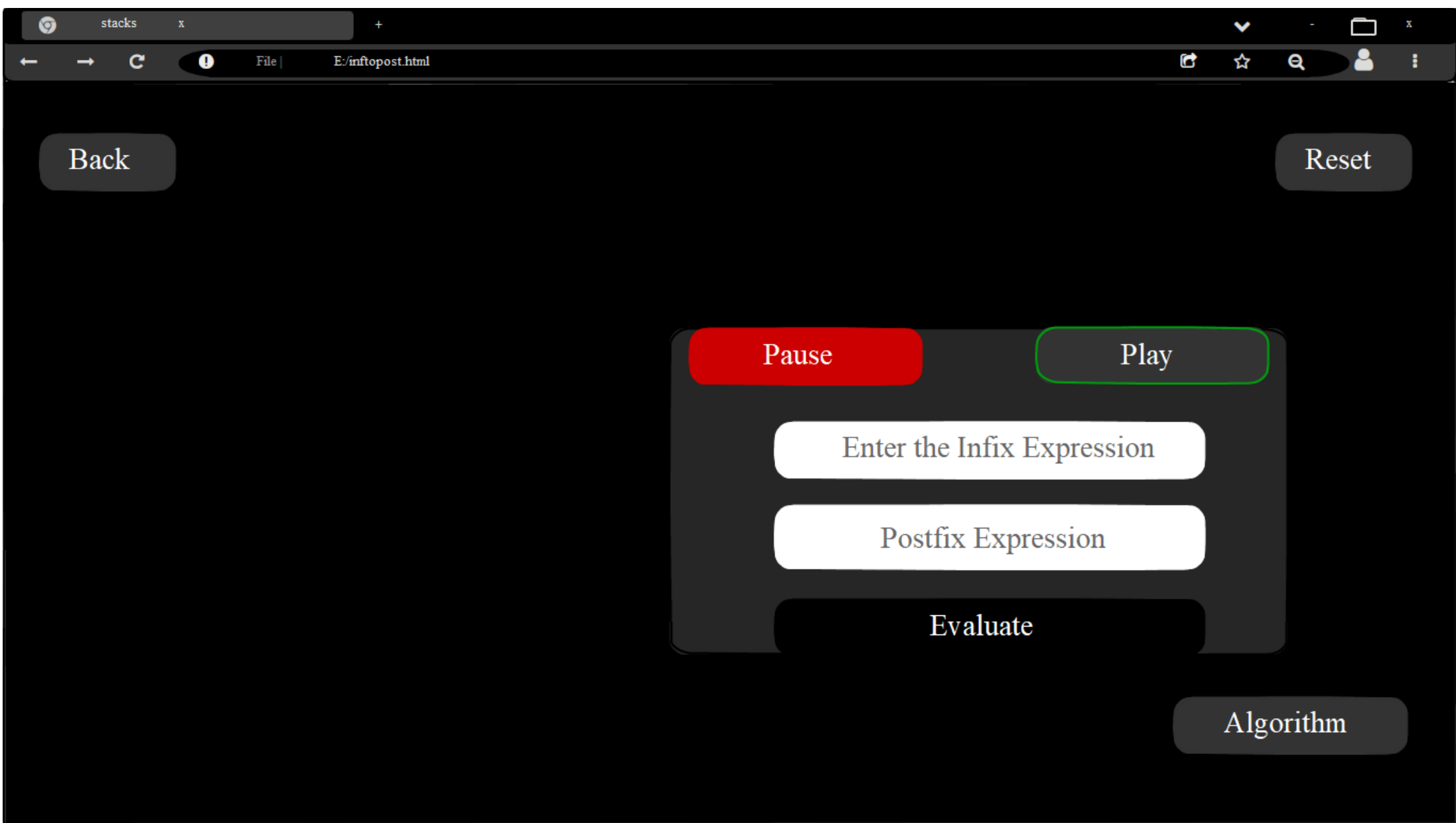
027396675

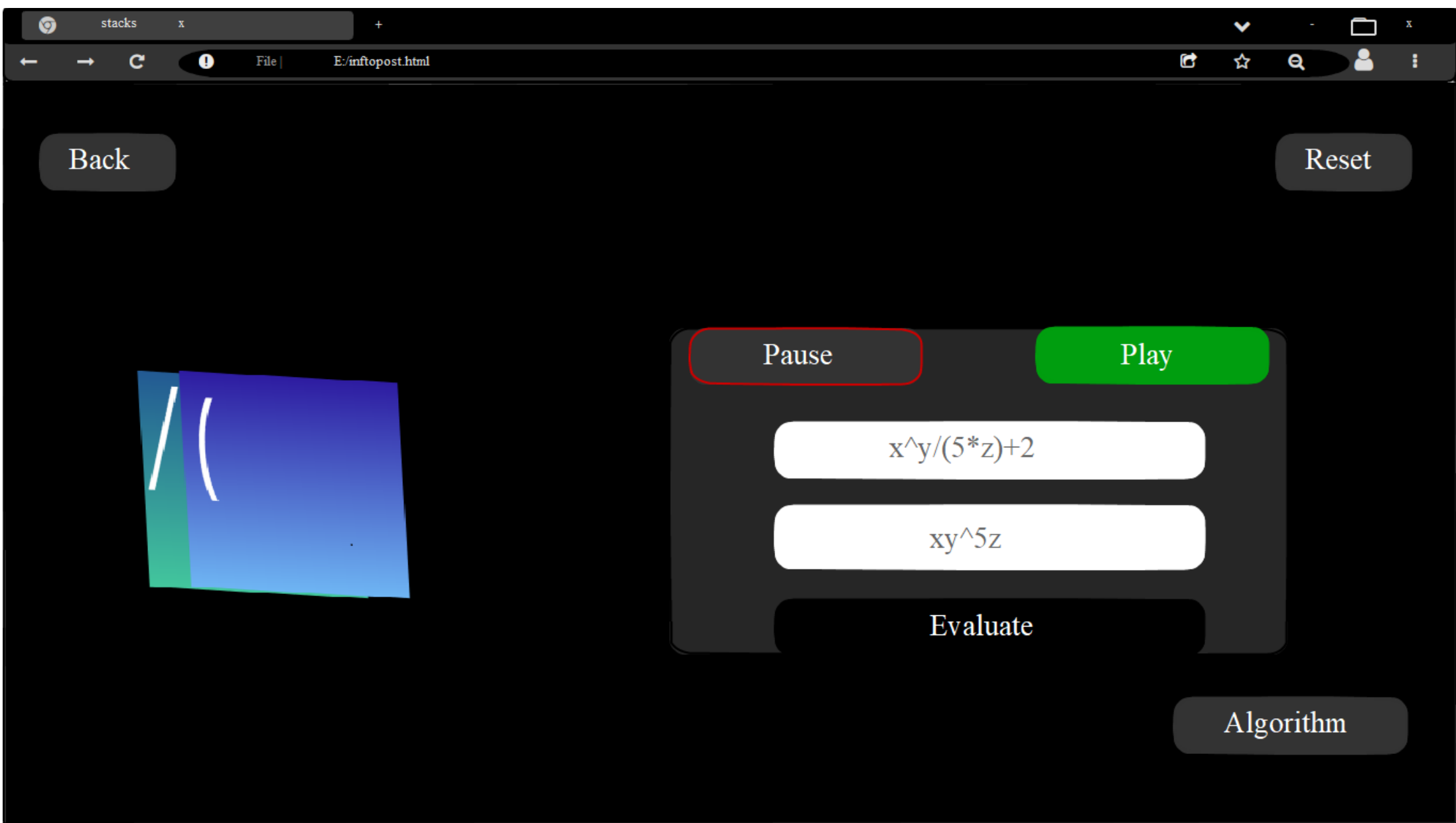
75

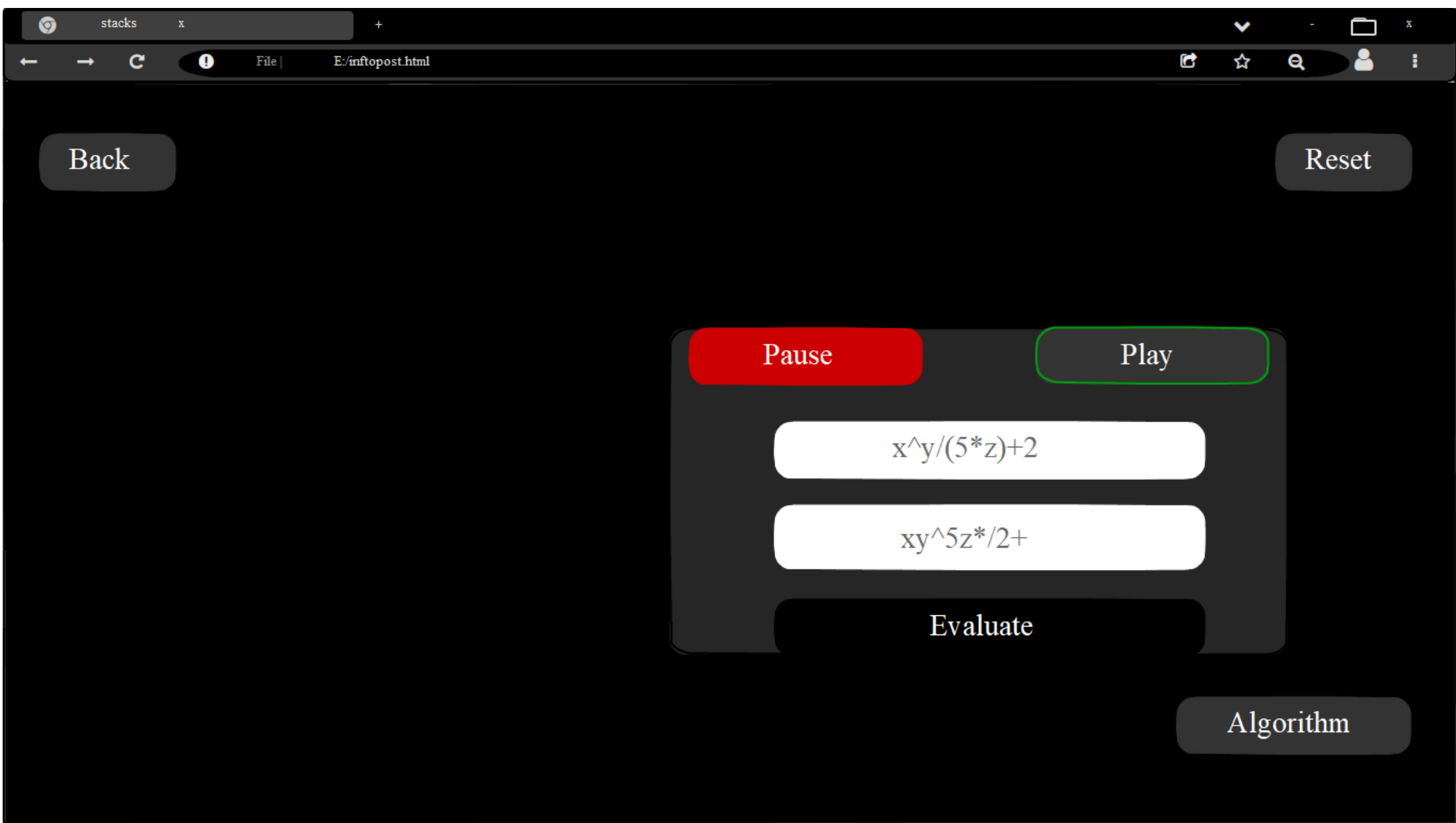
Push

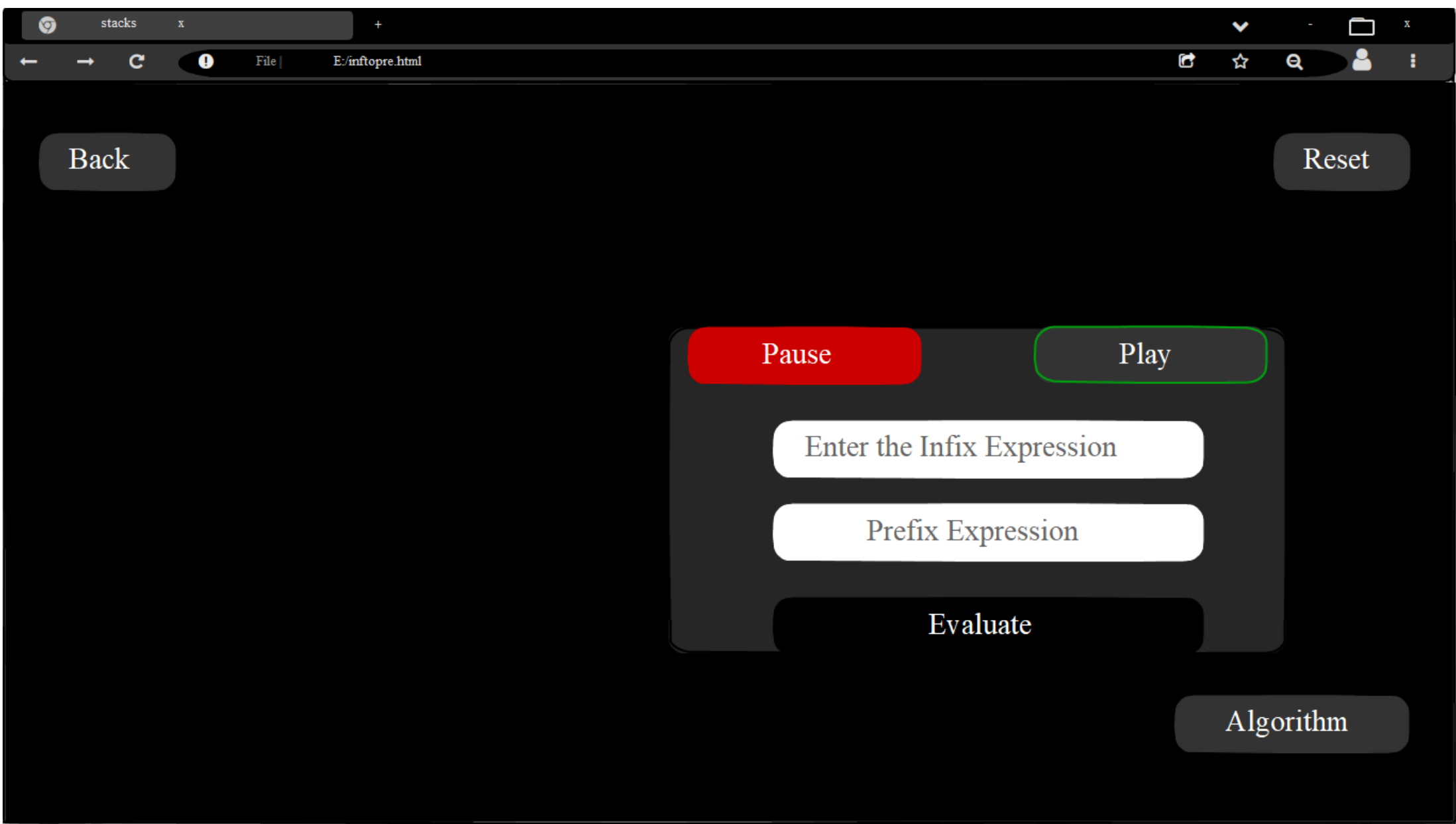
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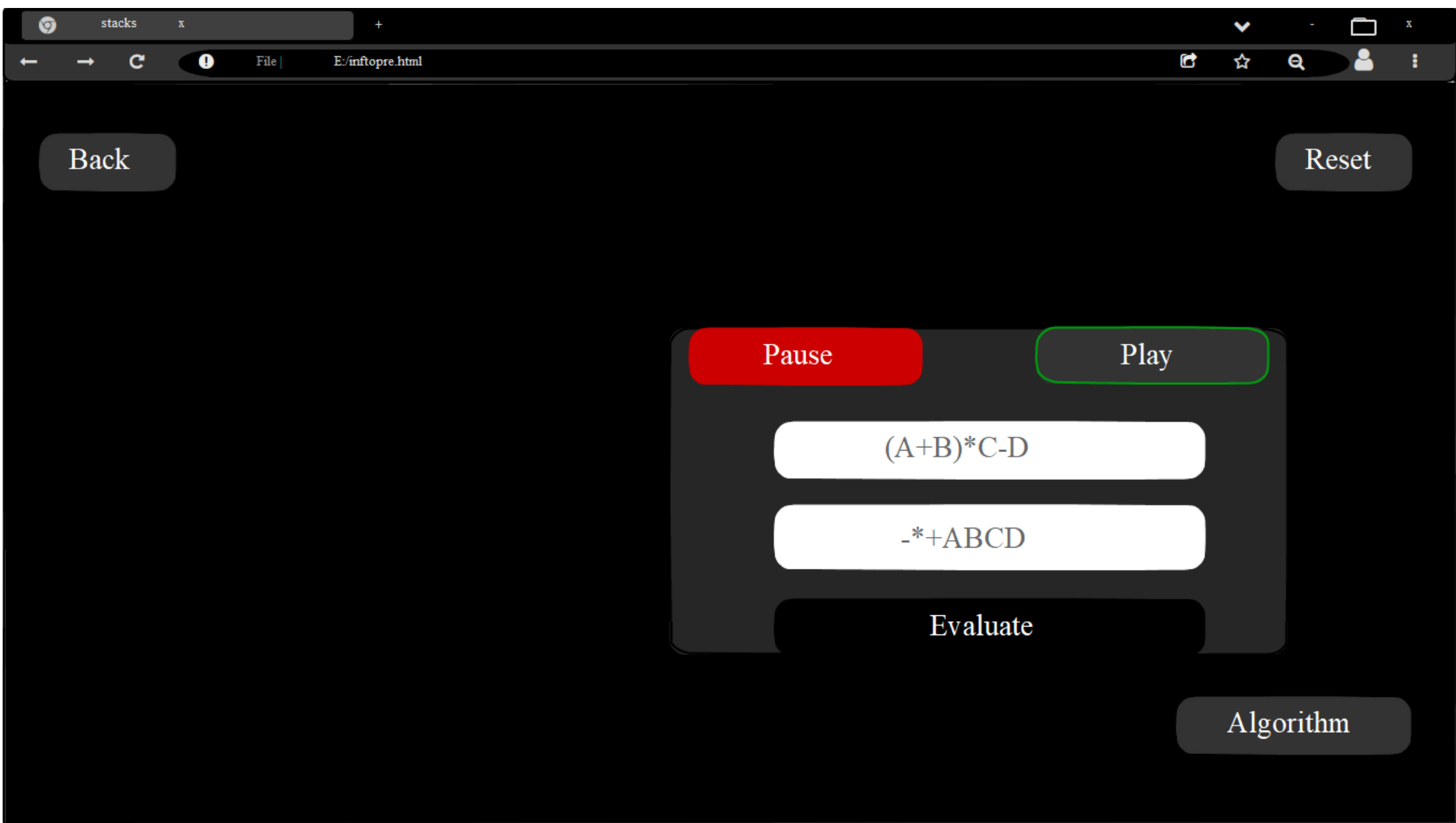
Play

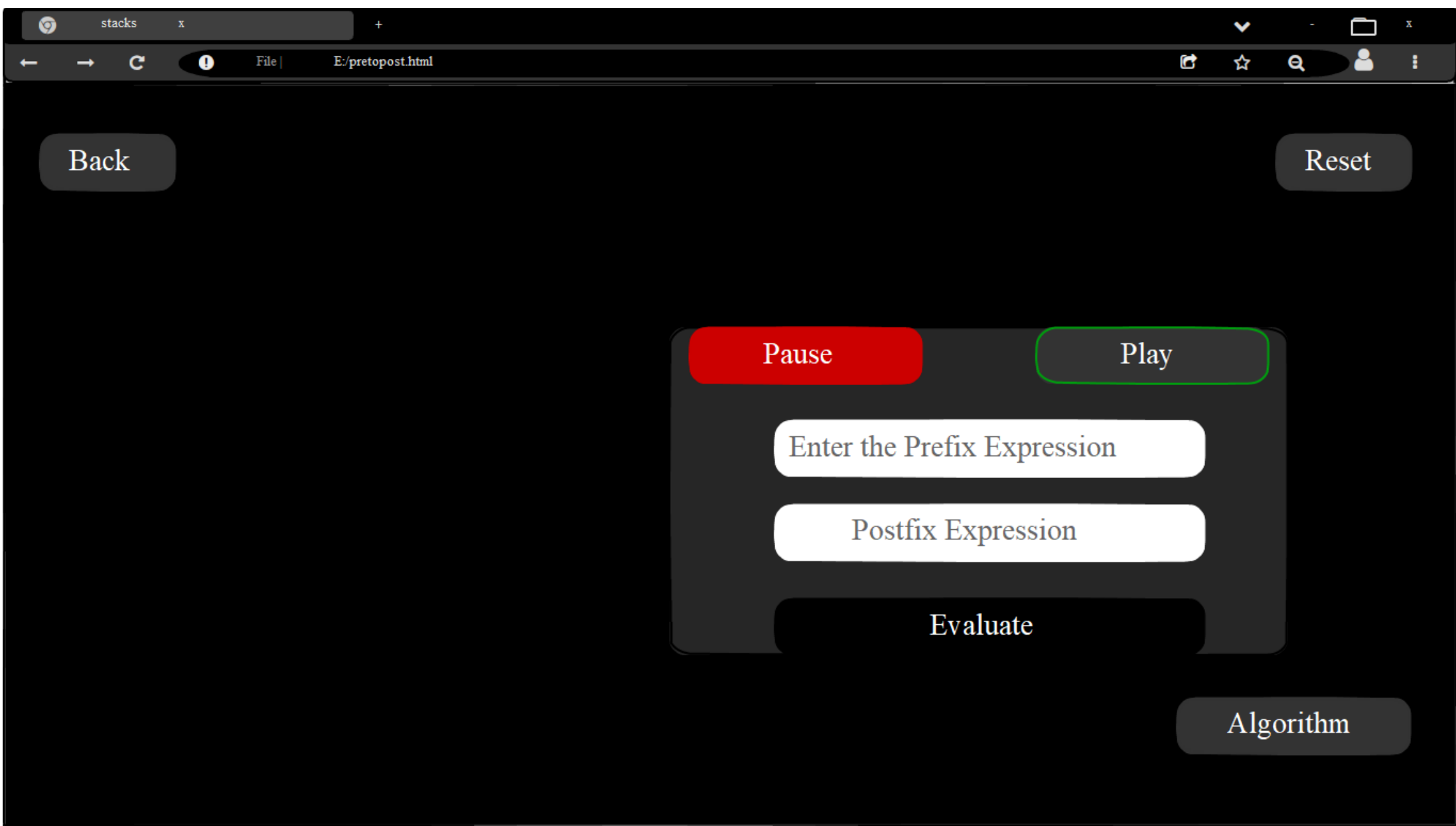
(A+B)*C-D

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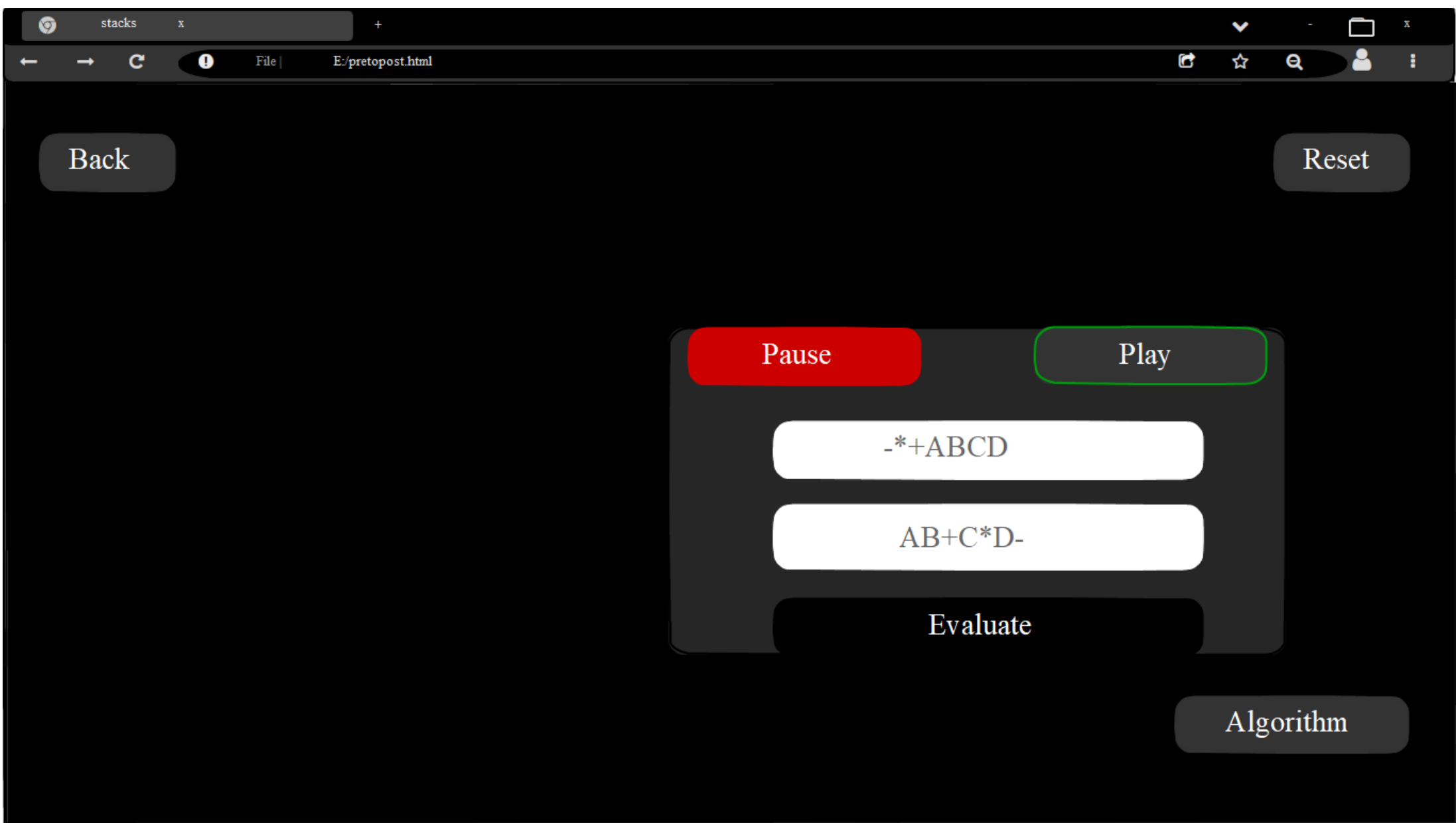
Play

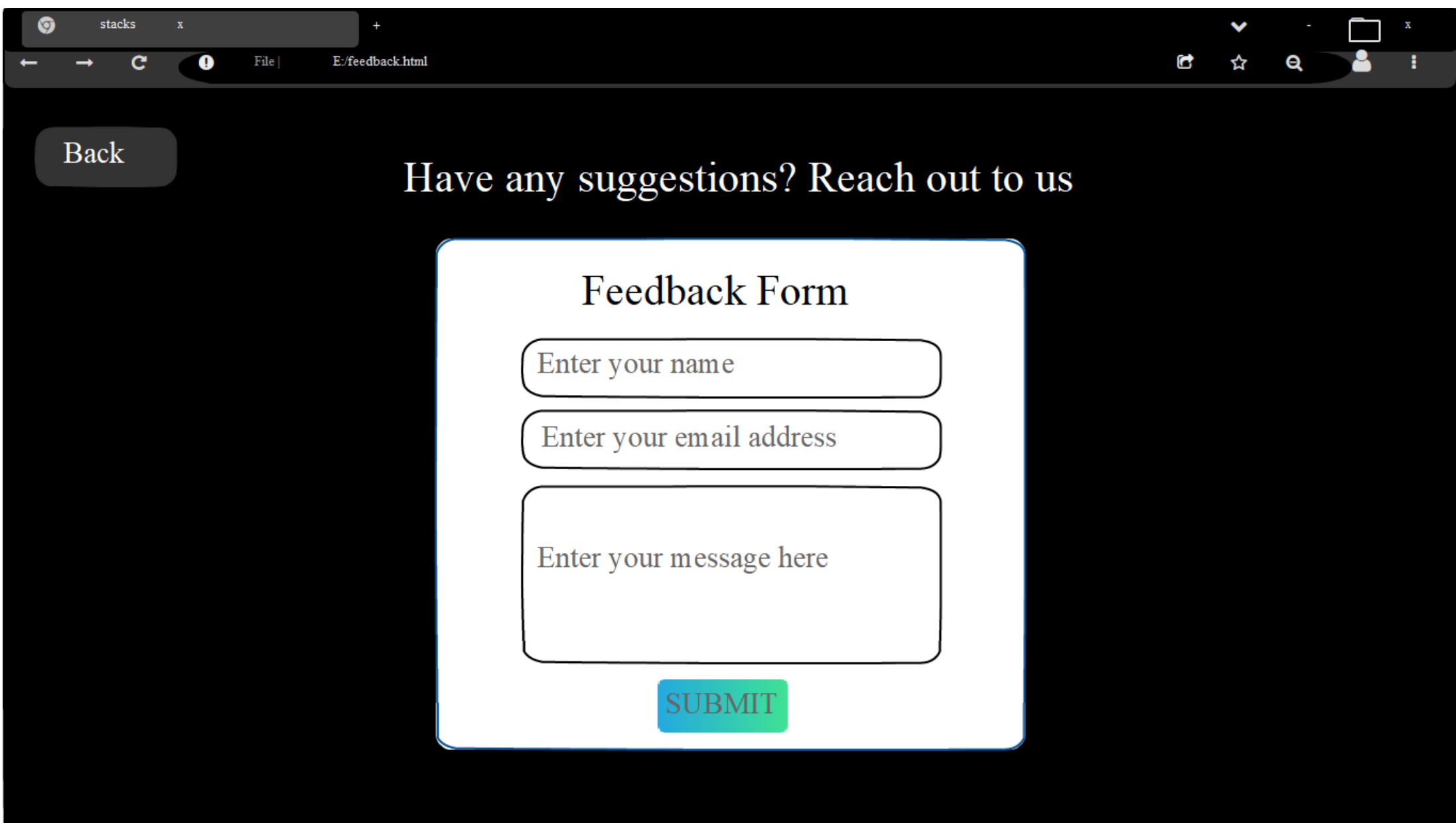
-*+ABCD

DCB

Evaluate

Algorithm





Back

Have any suggestions? Reach out to us

Feedback Form

Enter your name

Enter your email address

Enter your message here

SUBMIT



stacks

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File |

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[Back](#)

About Us

TEAM LEAD

Name : Karthik Sarode

S R N : PES1PG21CA030

Backend development, .

" If life is full of stress. You go on a RIDE! "

FRONTEND DEVELOPER

Name : M. Sasikumar

S R N : PES1PG21CA038

Fontend development, perfectionist in creating fronend animations and designs.

" Start doing what you love and you are unstoppable! "

DATABASE MANAGEMEN

Name : Narayana P

S R N : PES1PG21CA048

Backend development, can adapt to highly collaborative work environment.

" Starve your distractions feed your focus! "

FRONTEND DEVELOPER

Name : Karthik R Bhat

S R N : PES1PG21CA031

STACK REPRESENTATION

A stack is an Abstract Data Type (ADT), commonly used in most programming languages. It is named stack as it behaves like a real-world stack, for example - a deck of cards or a pile of plates, etc.

Stack operations may involve initializing the stack, using it and then de-initializing it. Apart from these basic stuffs, a stack is used for the following two primary operations –

ALGORITHM FOR PUSH AND POP OPERATION

Step 1: Start

Step 2: If $\text{Top} = \text{Max} - 1$

Print "Overflow : Stack is full" and Exit

APPLICATION PAGE

INFIX AND POSTFIX EXPRESSION

When the operator is written in between the operands, then it is known as infix notation. Operand does not have to be always a constant or a variable; it can also be an expression itself.

For example, $-(p + q) * (r + s)$

The postfix expression is an expression in which the operator is written after the operands

ALGORITHM FOR INFIX TO POSTFIX EXPRESSION

Let, X is an arithmetic expression written in infix notation. This algorithm finds the equivalent postfix expression Y.

Step 1: Start

APPLICATION PAGE

INFIX EXPRESSION AND PREFIX EXPRESSION

Infix expression:

$$(p + q) * (r + s)$$

Syntax of infix notation is given below:

< operand > < operator > < operand >

Prefix expression:

- $+pq+rs$

ALGORITHM FOR INFIX TO PREFIX EXPRESSION

Iterate the given expression from left to right, one character at a time

Step 1: Start

Step 2: First reverse the given expression

APPLICATION PAGE

PREFIX EXPRESSION , POSTFIX EXPRESSION

A stack is an Abstract Data Type (ADT), commonly used in most programming languages. It is named stack as it behaves like a real-world stack, for example - a deck of cards or a pile of plates, etc.

Stack operations may involve initializing the stack, using it and then de-initializing it. Apart from these basic stuffs, a stack is used for the following two primary operations –

ALGORITHM FOR PREFIX TO POSTFIX EXPRESSION

Let, Q be the arithmetic expression written in prefix notation. P is the postfix notation.

Step 1: Start

APPLICATION PAGE

