

Question 1

Develop an operator precedence parser for a given language.

Output:

```
Activities Terminal Mon 14:
mec@cl1-1-1:~/CS7B$ touch pgl.c
mec@cl1-1-1:~/CS7B$ gcc pgl.c
mec@cl1-1-1:~/CS7B$ ./a.out
Enter the no. of terminals: 4
Enter the terminals:
+*i$
Enter the operator precedence table values:
Enter the precedence value for + +: >
Enter the precedence value for + *: <
Enter the precedence value for + i: <
Enter the precedence value for + $: >
Enter the precedence value for * +: >
Enter the precedence value for * *: >
Enter the precedence value for * i: <
Enter the precedence value for * $: >
Enter the precedence value for i +: >
Enter the precedence value for i *: >
Enter the precedence value for i i: =
Enter the precedence value for i $: >
Enter the precedence value for $ +: <
Enter the precedence value for $ *: <
Enter the precedence value for $ i: <
Enter the precedence value for $ $: A
-----OPERATOR PRECEDENCE TABLE-----
      +      *      i      $
+      >      <      <      >
*      >      >      <      >
i      >      >      =      >
$      <      <      <      A
Input the string to parse: i*i+i$
```

Enter the precedence value for \$ \$: A

-----OPERATOR PRECEDENCE TABLE-----

	+	*	i	\$
+	>	<	<	>
*	>	>	<	>
i	>	>	=	>
\$	<	<	<	A

Input the string to parse: i*i+i\$

STACK	INPUT STRING	ACTION
\$	i*i+i\$	SHIFT i
\$<i	*i+i\$	REDUCE
\$	*i+i\$	SHIFT *
\$<*	i+i\$	SHIFT i
\$<*<i	+i\$	REDUCE
\$<*	+i\$	REDUCE
\$	+i\$	SHIFT +
\$<+	i\$	SHIFT i
\$<+<i	\$	REDUCE
\$<+	\$	REDUCE
\$	\$	String is accepted!