Quiz 4

Given the following grammar:

```
(1)  \mathbf{E} \rightarrow \mathbf{T} + \mathbf{E} 
(2)  | \mathbf{T} 
(3)  \mathbf{T} \rightarrow \mathbf{int} * \mathbf{T} 
(4)  | \mathbf{int} 
(5)  | \mathbf{(E)}
```

Give the sequence of shift-reduce actions for the input: int * int + int

stack | input

```
int * int + int
int | * int + int
int * | int + int
int * int | + int
int * T | + int
T \mid + int
T + | int |
T + int
T + T
T + E
E
```

parse action

```
shift int
shift *
shift int
reduce T \rightarrow int
reduce T \rightarrow int * T
shift +
shift int
reduce T \rightarrow int
reduce E \rightarrow T
reduce E \rightarrow T + E
```