push (const): push the (const) value onto the evaluation stack

| | pop (id): pop the top element of the evaluation stack and store it in (id) |
|-------|---|
| | evaluation stack virtual manory |
| | push set of sids |
| | SET OF \$100 |
| | |
| | |
| | |
| | add: pop the top two elements of the evaluation stack, compute |
| | stack[top-1] + stack[top], push the value back onto the stack |
| | anonymously for sub(for-), mul(for x), div(for/). In fact, this action is |
| | done for any binary interactions |
| | reg: For unary -, Pop the top dement of the evaluation stack, compute |
| | -stack [top], push the value onto the stack. In fact, this action is |
| | done for any unary instruction |
| | How to generate these instructions for (E) |
| | · Do post -order traversal of the parse tree for <e></e> |
| | - visit argument subtrees, each in post order |
| | - visit the operator |
| | |
| | OUF leaf node is labeled by t=<.d>, <int>, <float> > emit "push t"</float></int> |
| | binary+,-, x, / > ent add, sub, nul, div (respectively) |
| • / | unary> emit neg |
| A+(B | + <u>~</u>) |
| | push A |
| A + / | push B B 3+c |
| B | + C: push c A A A A+(B+2) |
| | add |
| | add |
| | |
| | |

