

```

class stackAlg
types
    public Stack = A*;
    public A = token
functions
public
    empty : Stack →  $\mathbb{B}$ 
    empty (s)  $\triangleq$ 
        s = [];
public
    push : A × Stack → Stack
    push (a, s)  $\triangleq$ 
        [a]  $\curvearrowright$  s;
public
    pop : Stack → Stack
    pop (s)  $\triangleq$ 
        tl s
    pre  $\neg$  empty (s) ;
public
    top : Stack → A
    top (s)  $\triangleq$ 
        hd s
    pre  $\neg$  empty (s) ;
public
    clear : () → Stack
    clear ()  $\triangleq$ 
        []
end stackAlg

```