Configurations in K

- Computations in K need more than object language syntax
- Mathematical structures includes base types (eg Int) and Maps, Lists, Bags, Sets, K, KList, and user defined functions
- Operations on Maps, Lists, Sets found in k-distribution/includes/builtin/domians.k
- Most generally rules act on configurations
Approximate Grammar for K Configuration

```
Configuration ::= configuration Bag
Bag ::= .Bag | Cell | Cell Bag
Cell ::= < Name Features > CellContents < /Name >
        < k > K < /k >
               | BigK | BigK Op Id : BigK
BigK ::= List | Set | Map
K ::= KItemWithoutHole
     | KItemWithoutHole” ~> ” KWithHole
KItemWithoutHole ::= << stuffMadeFromSyntaxDeclarations >> | ” .”
KItemWithHole ::= << stuffMadeFromContextDeclarations >>
                 | KItemWithoutHole | ” HOLE” | ” .”
```