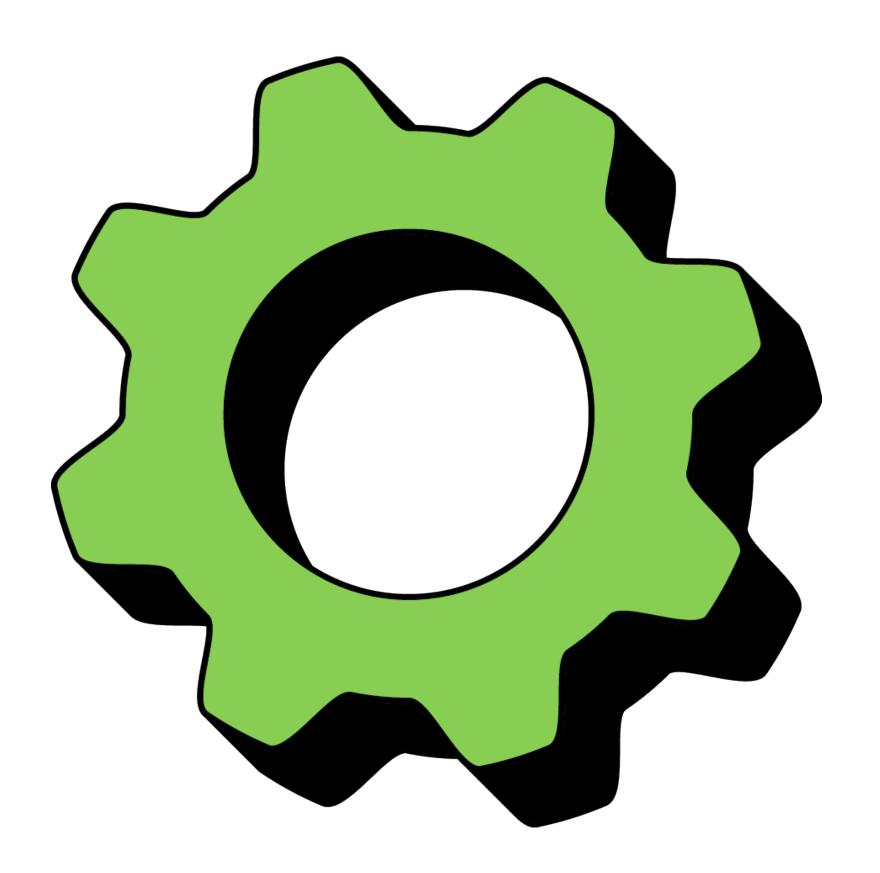
Essential Computing 1

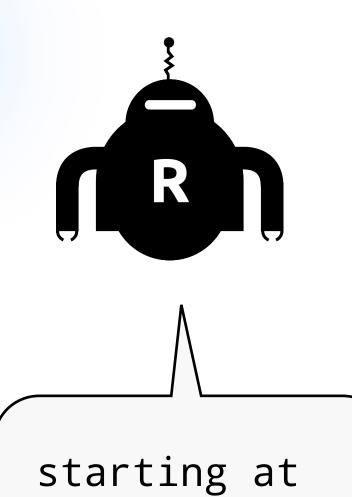
Methods with arguments



Example

```
public static void main( String[] args ){
  double storedChance = 0.5;
  maybeSay( "Hello", storedChance + 0.1 );
static void maybeSay( String prose, double chance ){
   boolean doSay = Math.random() < chance;</pre>
   if( doSay ){
      System.out.println( prose );
```

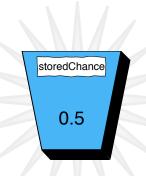
```
public static void main( String[] args ){
  double storedChance = 0.5;
  maybeSay( "Hello", storedChance + 0.1 );
static void maybeSay( String prose, double chance ){
   boolean doSay = Math.random() < chance;</pre>
  if( doSay ){
      System.out.println( prose );
```

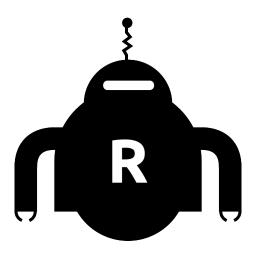


main method

```
→ public static void main( String[] args ){
    double storedChance = 0.5;
    maybeSay( "Hello", storedChance + 0.1 );
}
```

```
static void maybeSay( String prose, double chance ){
  boolean doSay = Math.random() < chance;
  if( doSay ){
     System.out.println( prose );
  }
}</pre>
```





creating variable and assigning 0.5 to it.

```
public static void main( String[] args ){
......
double storedChance = 0.5;
    maybeSay( "Hello", storedChance + 0.1 );
}
```

```
static void maybeSay( String prose, double chance ){
  boolean doSay = Math.random() < chance;
  if( doSay ){
     System.out.println( prose );
  }
}</pre>
```



```
evaluating arguments
```

```
public static void main( String[] args ){
    double storedChance = 0.5;
..... maybeSay( "Hello", storedChance + 0.1 );
}
```

```
static void maybeSay( String prose, double chance ){
  boolean doSay = Math.random() < chance;
  if( doSay ){
     System.out.println( prose );
  }
}</pre>
```



```
inserting value
```

of variable

```
public static void main( String[] args ){
         double storedChance = 0.5;
..... maybeSay( "Hello", storedChance + 0.1 );
}
```

```
static void maybeSay( String prose, double chance ){
  boolean doSay = Math.random() < chance;
  if( doSay ){
     System.out.println( prose );
  }
}</pre>
```

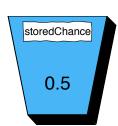


```
public static void main( String[] args ){
                          double storedChance = 0.5;
               ..... maybeSay( "Hello", 0.5 + 0.1 );
adding
                       static void maybeSay( String prose, double chance ){
                          boolean doSay = Math.random() < chance;</pre>
                          if( doSay ){
                             System.out.println( prose );
```

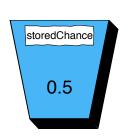


```
public static void main( String[] args ){
          double storedChance = 0.5;
          maybeSay( "Hello", 0.6 );
}
```

```
static void maybeSay( String prose, double chance ){
  boolean doSay = Math.random() < chance;
  if( doSay ){
     System.out.println( prose );
  }
}</pre>
```



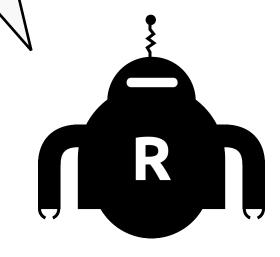
```
public static void main( String[] args ){
                                       double storedChance = 0.5;
                            ..... maybeSay( "Hello", 0.6 );
picking up arguments
                                    static void maybeSay( String prose, double chance ){
                                       boolean doSay = Math.random() < chance;</pre>
                                       if( doSay ){
                                          System.out.println( prose );
```

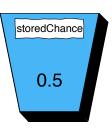


```
double storedChance = 0.5;
                                 maybeSay( "Hello", 0.6 );
calling method
                     ……….▶ static void maybeSay( String prose, double chance ){
                                   boolean doSay = Math.random() < chance;</pre>
                                   if( doSay ){
                                      System.out.println( prose );
```

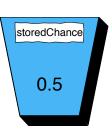
public static void main(String[] args){

creating argument variables and assigning input values



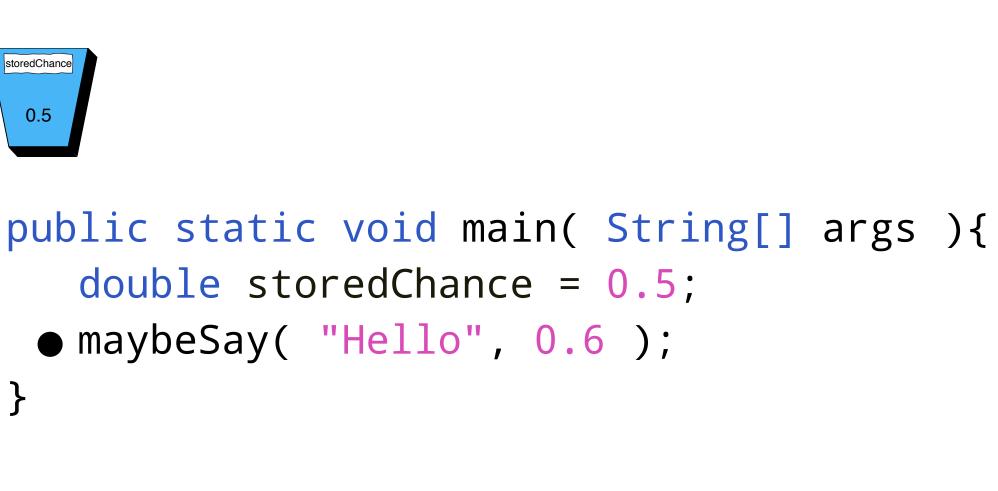


```
public static void main( String[] args ){
             double storedChance = 0.5;
           maybeSay( "Hello", 0.6 );
.....b static void maybeSay( String prose, double chance ){
             boolean doSay = Math.random() < chance;</pre>
             if( doSay ){
                System.out.println( prose );
```

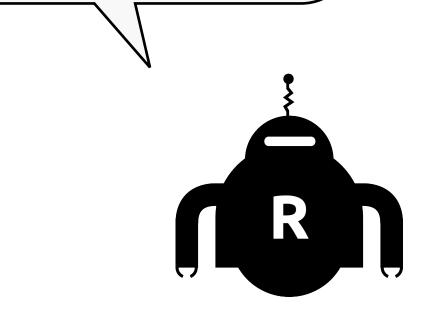


```
public static void main( String[] args ){
   double storedChance = 0.5;
   maybeSay( "Hello", 0.6 );
}
```

```
static void maybeSay( String prose, double chance ){
    boolean doSay = Math.random() < chance;
    if( doSay ){
        System.out.println( prose );
    }
}</pre>
```



chance



creating variable

```
static void maybeSay( String prose, double chance ){
.....boolean doSay = Math.random() < chance;
   if( doSay ){
      System.out.println( prose );
   }
}</pre>
```

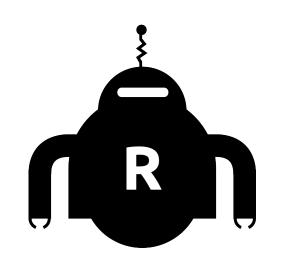


```
public static void main( String[] args ){
   double storedChance = 0.5;
   maybeSay( "Hello", 0.6 );
}
```

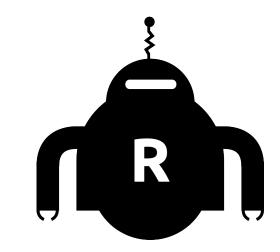
```
static void maybeSay( String prose, double chance ){
    boolean doSay = Math.random() < chance;
    if( doSay ){
        System.out.println( prose );</pre>
```

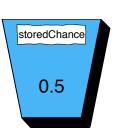


```
public static void main( String[] args ){
   double storedChance = 0.5;
   maybeSay( "Hello", 0.6 );
}
```







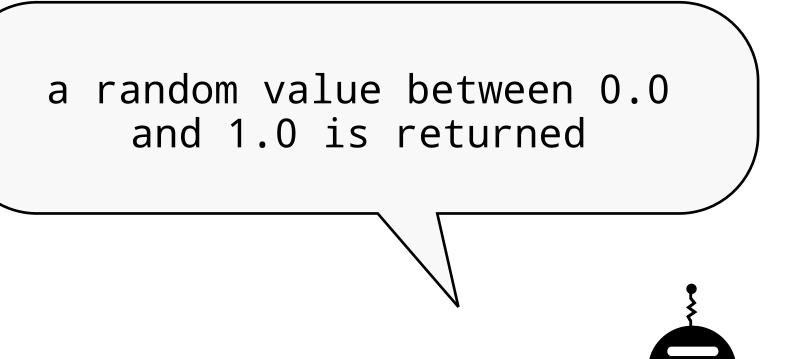


```
public static void main( String[] args ){
   double storedChance = 0.5;
    maybeSay( "Hello", 0.6 );
}
```

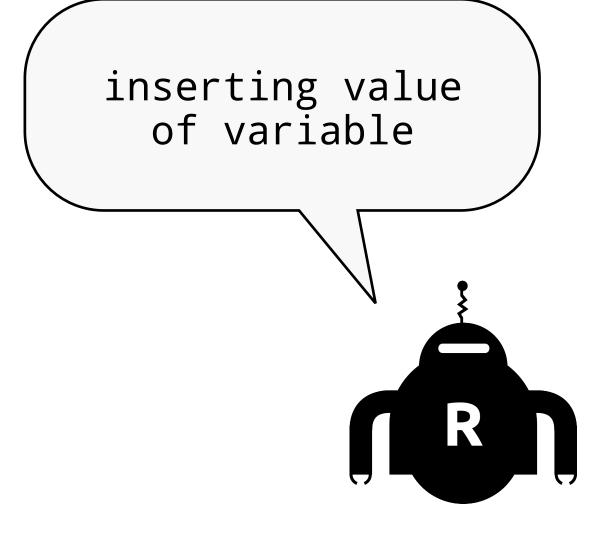
```
prose chance doSay

Hello 0.5
```

```
static void maybeSay( String prose, double chance ){
.....boolean doSay = Math.random() < chance;
    if( doSay ){
        System.out.println( prose );
    }
}</pre>
```



```
public static void main( String[] args ){
  double storedChance = 0.5;
 maybeSay( "Hello", 0.6 );
           doSay
static void maybeSay( String prose, double chance ){
 → boolean doSay = 0.213974619387461 < chance;</pre>
  if( doSay ){
      System.out.println( prose );
```



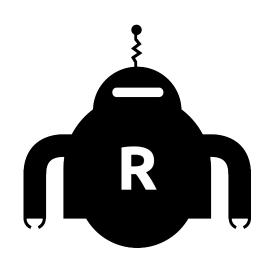
```
o.5

O.5
```

```
public static void main( String[] args ){
   double storedChance = 0.5;
 maybeSay( "Hello", 0.6 );
           doSay
     chance
static void maybeSay( String prose, double chance ){
…► boolean doSay = 0.213974619387461 < chance
   if( doSay ){
      System.out.println( prose );
```

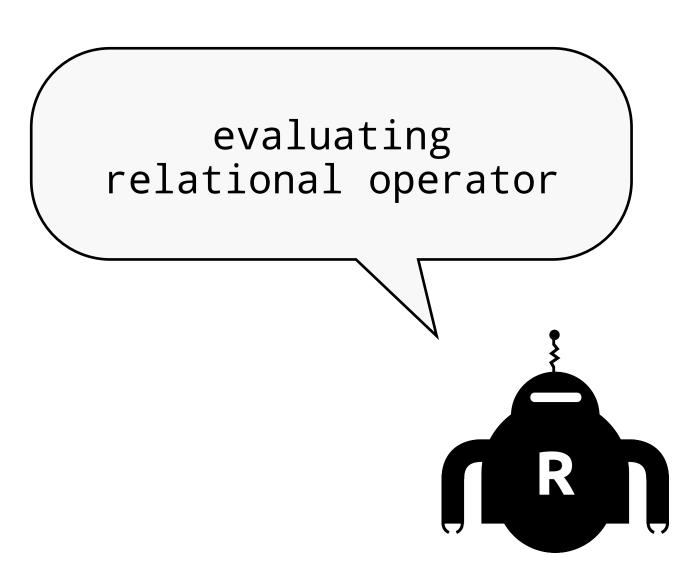


```
public static void main( String[] args ){
   double storedChance = 0.5;
   maybeSay( "Hello", 0.6 );
}
```



```
chance doSay
Hello
0.5
```

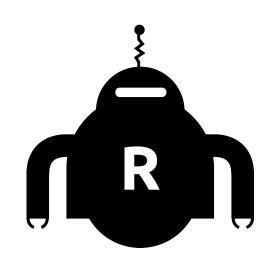
```
static void maybeSay( String prose, double chance ){
.....boolean doSay = 0.213974619387461 < 0.6
   if( doSay ){
       System.out.println( prose );
   }
}</pre>
```



```
public static void main( String[] args ){
   double storedChance = 0.5;
 maybeSay( "Hello", 0.6 );
           doSay
     chance
prose
static void maybeSay( String prose, double chance ){
 → boolean doSay = 0.213974619387461 < 0.6</pre>
   if( doSay ){
      System.out.println( prose );
```



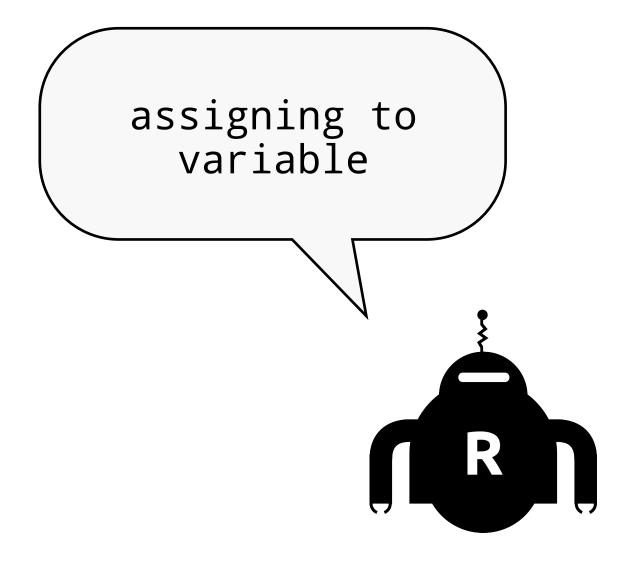
```
public static void main( String[] args ){
   double storedChance = 0.5;
   maybeSay( "Hello", 0.6 );
}
```



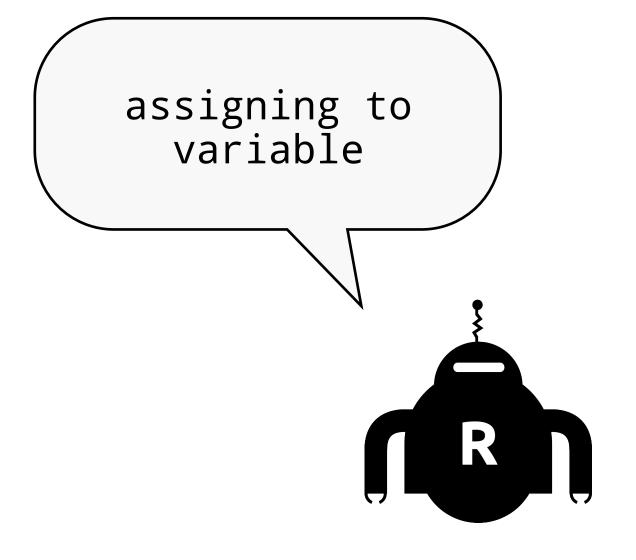
```
chance doSay

dello 0.5

Static void maybeSay( String
```

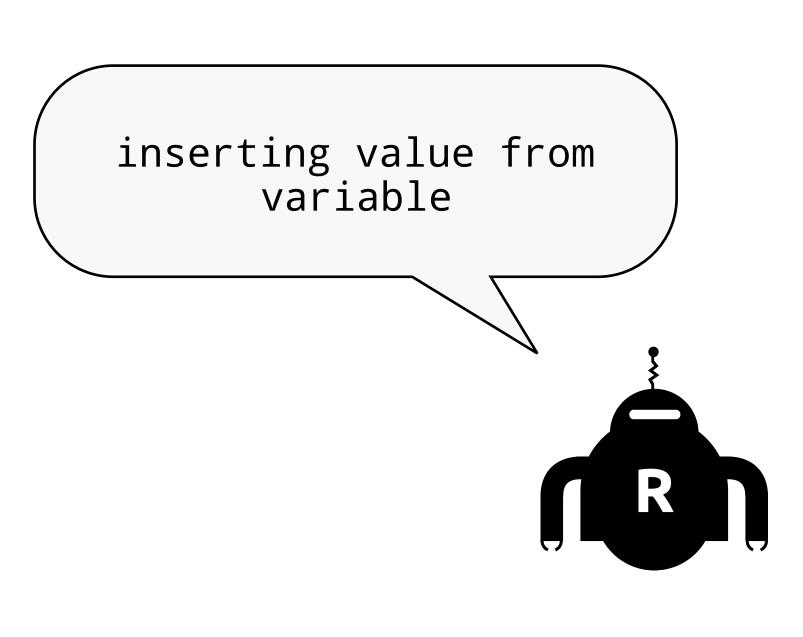


```
public static void main( String[] args ){
          double storedChance = 0.5;
        maybeSay( "Hello", 0.6 );
                  doSay
            chance
       static void maybeSay( String prose, double chance ){
.....boolean doSay = true;
          if( doSay ){
             System.out.println( prose );
```



```
o.5
```

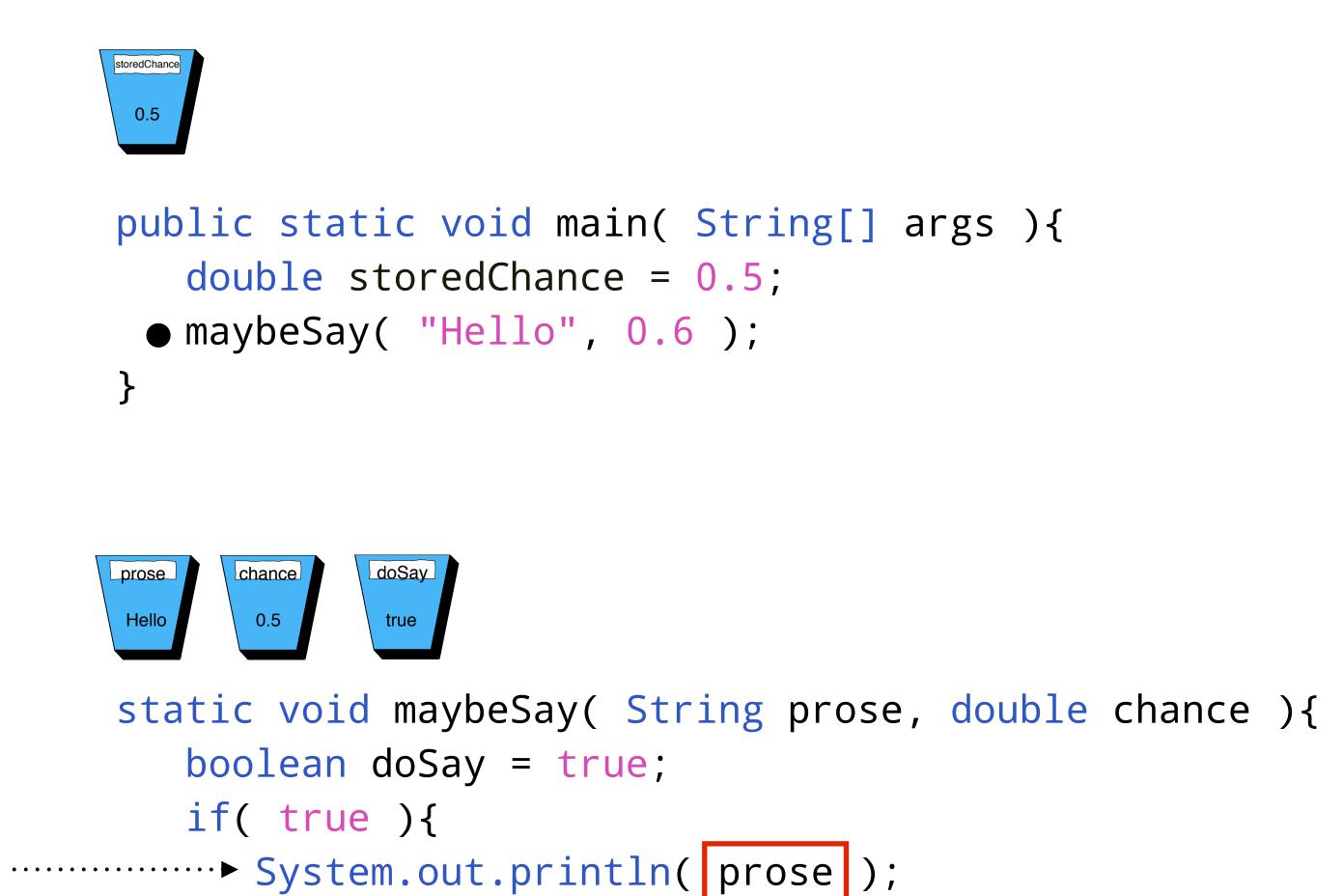
```
public static void main( String[] args ){
          double storedChance = 0.5;
        maybeSay( "Hello", 0.6 );
                  doSay
       static void maybeSay( String prose, double chance ){
.....boolean doSay = true;
          if( doSay ){
             System.out.println( prose );
```



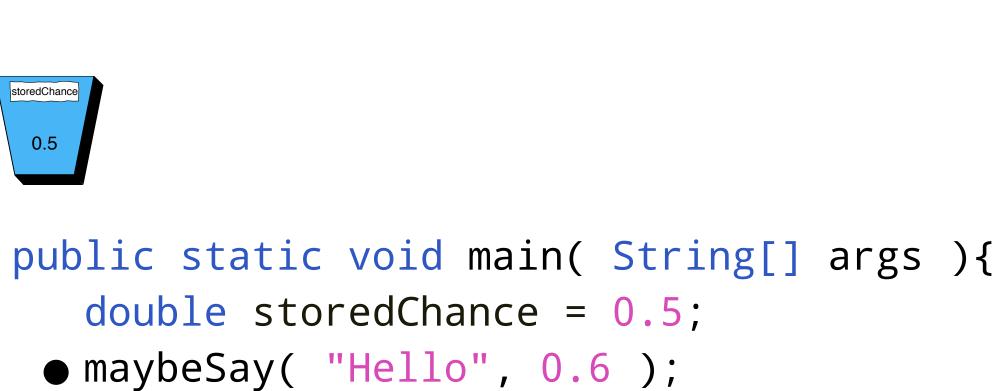
```
public static void main( String[] args ){
          double storedChance = 0.5;
        maybeSay( "Hello", 0.6 );
                  doSay
             chance
       static void maybeSay( String prose, double chance ){
          boolean doSay = true;
.....if( doSay ){
             System.out.println( prose );
```



```
public static void main( String[] args ){
          double storedChance = 0.5;
        maybeSay( "Hello", 0.6 );
                  doSay
             chance
       static void maybeSay( String prose, double chance ){
          boolean doSay = true;
.....if( true ){
             System.out.println( prose );
```



```
inserting value from variable R
```



```
prose chance doSay
Hello 0.5 true
```

```
R
```

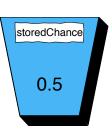
calling the println method, inside the out object, inside the System class.



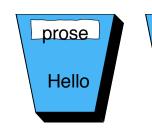
```
public static void main( String[] args ){
       double storedChance = 0.5;
     maybeSay( "Hello", 0.6 );
               doSay
    static void maybeSay( String prose, double chance ){
       boolean doSay = true;
       if( true ){
..... System.out.println( "Hello" );
```

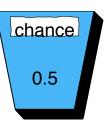


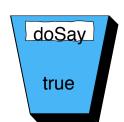




```
public static void main( String[] args ){
   double storedChance = 0.5;
   maybeSay( "Hello", 0.6 );
}
```







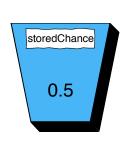






```
public static void main( String[] args ){
  double storedChance = 0.5;
 maybeSay( "Hello", 0.6 );
```

```
static void maybeSay( String prose, double chance ){
  boolean doSay = true;
  if( true ){
     System.out.println( "Hello" );
```



```
public static void main( String[] args ){
   double storedChance = 0.5;
   maybeSay( "Hello", 0.6 );
}
```



```
static void maybeSay( String prose, double chance ){
  boolean doSay = true;
  if( true ){
    System.out.println( "Hello" );
  }
}
```

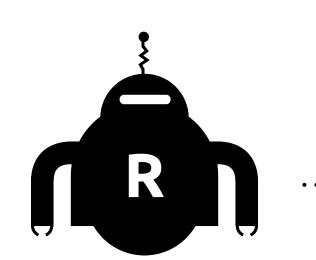


```
storedChance

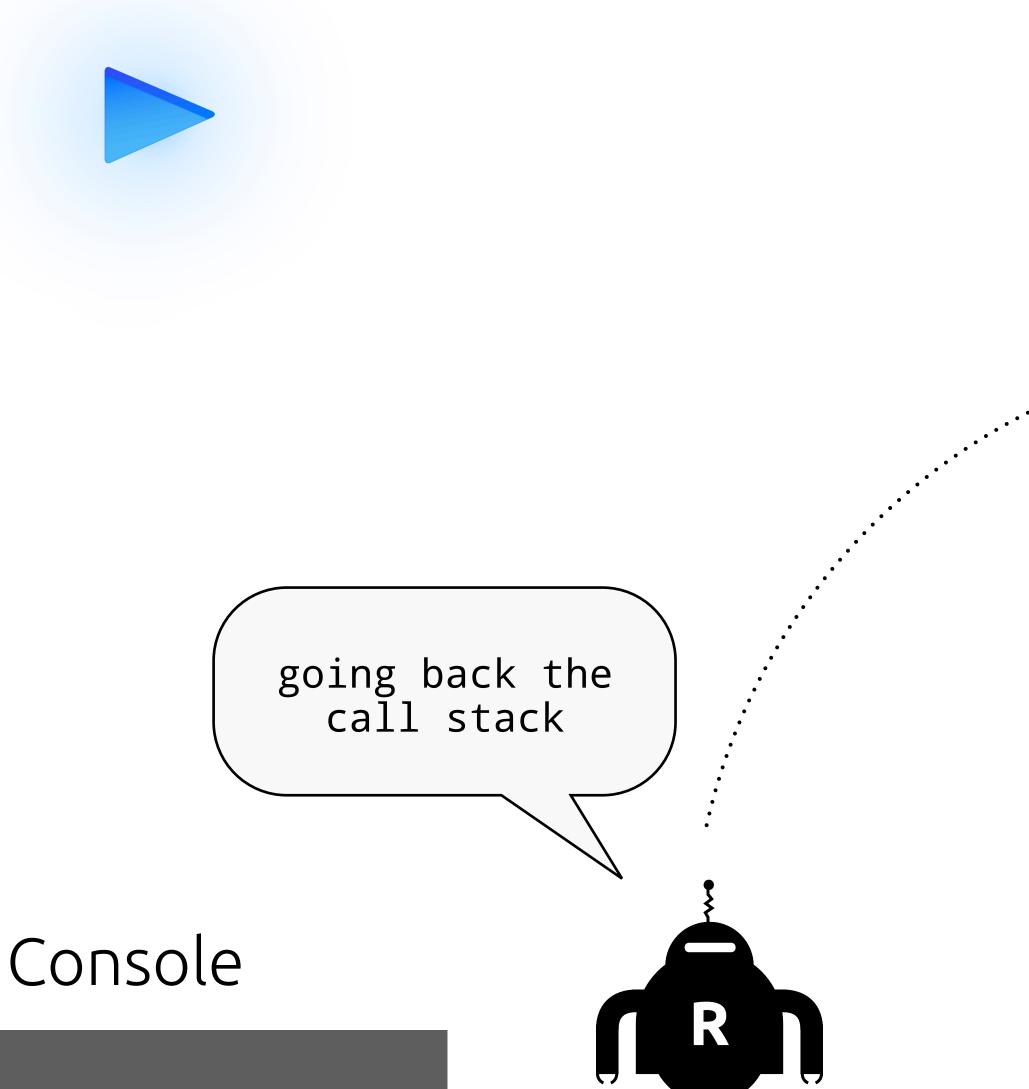
0.5
```

```
public static void main( String[] args ){
   double storedChance = 0.5;
   maybeSay( "Hello", 0.6 );
}
```

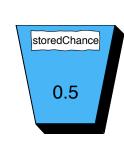
```
Console
```



```
static void maybeSay( String prose, double chance ){
  boolean doSay = Math.random() < chance;
  if( doSay ){
     System.out.println( prose );
  }
}</pre>
```



```
public static void main( String[] args ){
  double storedChance = 0.5;
maybeSay( "Hello", 0.6 );
static void maybeSay( String prose, double chance ){
   boolean doSay = Math.random() < chance;</pre>
   if( doSay ){
      System.out.println( prose );
```



```
forgetting local variables
```

```
Hello
```

```
public static void main( String[] args ){
   double storedChance = 0.5;
   maybeSay( "Hello", 0.6 );
}
```

```
static void maybeSay( String prose, double chance ){
  boolean doSay = Math.random() < chance;
  if( doSay ){
     System.out.println( prose );
  }
}</pre>
```

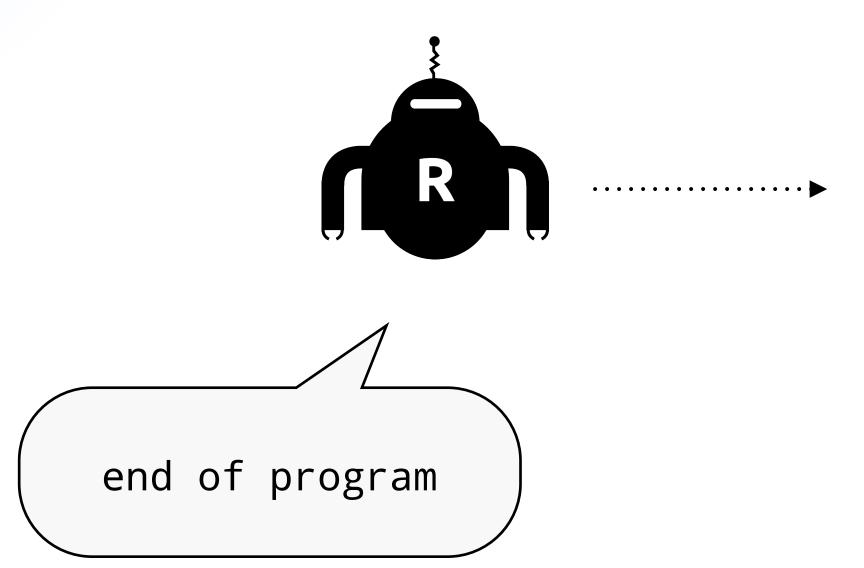


```
public static void main( String[] args ){
    double storedChance = 0.5;
    maybeSay( "Hello", storedChance + 0.1 );
}
```

Hello

```
static void maybeSay( String prose, double chance ){
   boolean doSay = Math.random() < chance;
   if( doSay ){
       System.out.println( prose );
   }
}</pre>
```





Hello

```
public static void main( String[] args ){
  double storedChance = 0.5;
  maybeSay( "Hello", storedChance + 0.1 );
static void maybeSay( String prose, double chance ){
   boolean doSay = Math.random() < chance;</pre>
   if( doSay ){
      System.out.println( prose );
```

Hello

```
public static void main( String[] args ){
  double storedChance = 0.5;
  maybeSay( "Hello", storedChance + 0.1 );
static void maybeSay( String prose, double chance ){
   boolean doSay = Math.random() < chance;</pre>
  if( doSay ){
      System.out.println( prose );
```