P0002 M2

Building Fib from scratch

In[52]:=
```
fib[x_] := (
    If[x == 0, Return [1], (*do nothing *)];
    If[x == 1, Return [2], (*do nothing *)];
    Return [fib[x - 1] + fib[x - 2]]
    )
```

In[62]:=
```
Table [fib[i], {i, 0, 10}]
```

Out[62]= {1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144}

Wolfram cloud cannot handle the computations necessary.
Also here is another way to write this.

In[66]:=
```
fib2[0] = 1;
fib2[1] = 2;
fib2[n_Integer ] := fib2[n - 1] + fib2[n - 2];
```

In[69]:=
```
Table [fib2[i], {i, 0, 10}]
```

Out[69]= {1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144}