```
dynamicVar=0
counter=0
## funcOutput outputs the var in dynamic var
funcOutput () { echo "in dynamicVar: $dynamicVar"; }
## funcFiboChild calculates fibo elements recursively using the dynamicVar
## this show the dynamic scoping by using the startVar and dynamicVar in
recursive without passing the varible. Also uses the counter, which is a global
var to control the depth of recursion.
funcFiboChild(){
    sum=$((dynamicVar+startVar))
    startVar=$dynamicVar
   dynamicVar=$sum
   let counter=counter+1
    echo "recursion for $counter times"
   funcOutput
   if (($counter<10));then</pre>
        funcFiboChild
    fi
}
## funcFibo defines local var and calls funcFiboChild
funcFibo () { local startVar=1; local dynamicVar=1; funcFiboChild; }
## calls funcFibo, should call funcFiboChild for 10 times
## calls output directly, will output globalVar dynamicVar,which should be 0
echo "end of recursion, output the value of globals"
funcOutput
```

Pure Text version below

```
dynamicVar=0
counter=0
funcOutput () { echo "in dynamicVar: $dynamicVar"; }
funcFiboChild(){
  sum=$((dynamicVar+startVar))
  startVar=$dynamicVar
  dynamicVar=$sum
  let counter=counter+1
  echo "recursion for $counter times"
  funcOutput
  if (($counter<10));then
    funcFiboChild
  fi
}
funcFibo () { local startVar=1; local dynamicVar=1; funcFiboChild; }
echo "end of recursion, output the value of globals"
funcOutput
```