

Fibonacci

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7/10/2019

```
#Funcion de Fibonacci
fibonacci<-function(n){
  f1<-0;
  f2<-1;
  aux<-f1+f2
  while (n>1){f1<-f2;f2<-aux;aux<-f1+f2;n<-n-1}
  return(f2)
}
#Aqui se generan las ternas de Fibonacci
n<-6
i<-1
while (i<n){
  v<-c(fibonacci(i), fibonacci(i+1), fibonacci(i+2), fibonacci(i+3))
  a<-v[1]*v[4]
  b<-2*v[2]*v[3]
  h<-v[2]^2+v[3]^2
  i<-i+1
  print(c(a,b,h))
}
```

```
## [1] 3 4 5
## [1] 5 12 13
## [1] 16 30 34
## [1] 39 80 89
## [1] 105 208 233
```