

Pensieve header: Computing some Ramsey numbers.

```
R[_ , 1] = 1;  
R[1, _] = 1;  
R[m_, n_] := R[m, n] = R[m - 1, n] + R[m, n - 1];  
R[nn_, m_, n_] := R[nn, m, n] = R[nn, R[m, n]];  
  
R[3, 3]  
6  
  
R[4, 4]  
20  
  
R[3, 3, 3]  
21  
  
R[4, 4, 4]  
1540  
  
R[4, 4, 4, 4]  
$RecursionLimit::reclim : Recursion depth of 1024 exceeded. >>  
  
$RecursionLimit = ∞;  
R[4, 4, 4, 4]  
609 896 980  
  
R[5, 5, 5, 5]
```