

# Re: Recursion Usage and Concepts – Newbie Question

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*Source:* <http://coding.derkeiler.com/Archive/Java/comp.lang.java.programmer/2007-10/msg01848.html>

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- *From:* Christian <fakemail@xxxxxx>
  - *Date:* Mon, 15 Oct 2007 20:19:52 +0200
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Roedy Green schrieb:

On Mon, 15 Oct 2007 12:28:10 +0200, Christian <fakemail@xxxxxx> wrote,  
quoted or indirectly quoted someone who said :

s Dynamic  
programming needs some kind of object that holds results of earlier  
computed values

I did all kinds of dynamic programming back in the days of Fortran  
where you don't have recursion. It never dawned on me until now that  
you could handle tracking the history with recursion.

I meant that if your Dynamic Programming based algorithm must somehow  
provide the already calculated subproblems to each call of the function..

so either you could pass these as some object..

ex

```
public static Integer calc(Integer what, Map<Integer,Integer> subresults) {}
```

or you could use a calc object

```
class CalcObj {  
private Map<Integer,Integer> subresults ...  
public Integer calc(Integer what){}  
}
```

I don't see any reason why a dynamic programming algorithm shouldn't  
also use recursion if the problem is predestined for recursion but  
without dynamic programming to hard to solve .. i.e fibonacci(again bad  
example as  $O(1)$  is possible)..

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