

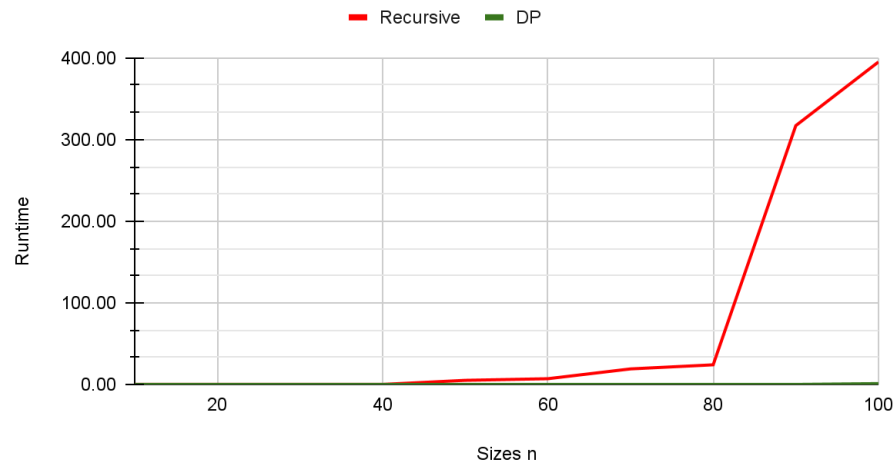
Homework 3 - Problem 3

How values for the arrays were made:

```
for (int i = 0; i < size; i++) {  
    A[i] = (int) (Math.random() * 1000); <--- random num  
}
```

#	Size	Recursive Results (in milliseconds)	DP Results (in milliseconds)
1.	10	0	0
2.	20	0	0
3.	30	0	0
4.	40	0	0
5.	50	5	0
6.	60	7	0
7.	70	19	0
8.	80	24	0
9.	90	317	0
10.	100	395	1

Runtime (MS)



Given the information above, we can conclude that it is faster to use DP than to use recursive implementation for this approach. Recursive results begin to really start stacking up time overall compared to its counterpart once it hits a size of around 50.