

1) (5 pts) DSN (Recursive Coding)

Write a **recursive** function that returns the sum of all of the even elements in an integer array *vals*, in between the indexes *low* and *high*, inclusive. For example, for the function call `sumEven(vals, 3, 8)` with the array *vals* shown below, the function should return $24 + 8 + 10 = 42$, since these three numbers are the only even numbers stored in the array in between index 3 and index 8, inclusive.

index	0	1	2	3	4	5	6	7	8	9
vals[i]	15	13	28	19	24	8	7	99	10	14

```
int sumEven(int vals[], int low, int high) {  
  
    if (low > high) return 0;          // 1 pt base case.  
  
    int res = 0;                       // 2 pts assign variable based  
    if (vals[low]%2 == 0)              // on current term.  
        res = vals[low];  
  
    return res + sumEven(vals, low+1, high); // 2 pts return and  
                                              // recursive call  
}
```