Recursion exercise

**Question 1.**

The output of the function call recursion rec2(5) is:

1 2 3 4 5

**Question 2.**

Write a recursive function that calculates the sum 11+ 22+33+...+nn .

int crazySum(int n) {

if (n == 1)

return 1;

return power(n, n) + crazySum(n - 1);

}

int power(int base, int expo) {

if (expo == 0)

return 1;

return (base \* power(base, expo - 1));

}

**Question 3**

The call of the function question3(10,101) returns 10101.

Question 4

method recursively:

int zeros(int n) {

if (n == 0)

return 0;

return (n / 5 + zeros(n / 5));

}

Question5.

int isSorted(int \*array, int n) {

if (n == 1)

return 1;

else

return isSorted(array, n - 1) && array[n - 2] <= array[n-1];

}