10) 2048 (204
20
40
40
8

Q: int f(int n)

```
{
  Static int i = 1
  if (n>= 5) return n;
  n = n+i;
  i++;
  return f(n);
}
```

n	1	2	4	7	
i	1	2	3	4	

f(1).

→ 7 Ans.

Q: void foo (int n, int sum)

```
{
  int k=0, j=0;
  if (n==0) return;
  k = n% 10;
  j = n/10;
  Sum = Sum + k;
  foo (j, sum);
  printf ("%d", k)
}
int main () {
  int a = 2048, sum = 0;
  foo( a, sum);
  printf("%d \n", Sum);
}
```

a = 2048, Sum = 0
n = 2048, Sum = 0
K = 0, j = 0

K = 0   f(2048, 0)
K = 8   f(204, 8)
K = 4   f(20, 12)
K = 0   f(2, 12)
K = 2   f(0, 14)

2, 0, 4, 8, 0.

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Q: int f(int &x, int c)

```
{
    c = c - 1;
    if (c == 0) return 1;
    x = x + 1;
    return f(x, c) * x;
}
```

x = 5 c = 5

x = 6 c = 4

int f(int &x, int c)

↓

int f(5, 5) → 9^4

f(6, 4) * 9

f(7, 3) * 9

f(8, 2) * 9

f(9, 1) * x → 1

↳ 0,

~~f(10, 0)~~

*x

[5] ~~6~~ ~~7~~ ~~8~~ (9)

→ 9^4 → 6561 Ans.

~~Q: int fun(int n)~~

```
{
    int x = 1, k;
    if (n == 1) return x;
    for (k = 1; k < n; ++k)      — 4 iteration
    x = x + fun(k) * fun(n-k);
    return x;
}
```

→ f(5);

n = 5, x = 1, k

1 + fun(1) * fun(4)

1 + fun(1) * fun

q: void count(int n)
{
  static int d = 1;
  printf("%d", n);
  printf("%d", d);
  d++;
  if (n > 1) count(n-1);
  printf("%d", d);
}
void main() { count(3); }