```c
#include <stdio.h>

void foo(int n, int sum)
{
   int k = 0, j = 0;

   if (n == 0)
     return;

   k = n % 10;
   j = n / 10;
   sum = sum + k;
   printf ("%d,", k);
   foo (j, sum);
}

int main ()
{
   int a = 2048, sum = 0;
   foo (a, sum);
   printf ("%d", sum);

   return(0);
}
```