recursivo.c

```
#include <stdio.h>
unsigned int somatoria (unsigned int n)
 if (n==1) return 1;
 return somatoria(n-1) + n;
unsigned int somatoriaTR (unsigned int n, unsigned int s)
 if (n==1) return s+1;
 return somatoriaTR(n-1, s+n);
}
unsigned int digitos (unsigned int n)
 if (n<10) return 1;
 return digitos(n/10) + 1;
unsigned int digitosTR (unsigned int n, unsigned int d)
 if (n<10) return d+1;
 return digitosTR(n/10, d+1);
unsigned int soma_digitosTR (unsigned int n, unsigned int d)
 if (n<10) return d+n;
 return soma_digitosTR(n/10, d+n%10);
int primoTR (unsigned int x, unsigned int n)
 if (x<2) return 0;
 if (n==1) return 1;
 if (x\%n == 0) return 0;
 return primoTR(x, n-1);
}
int primo (unsigned int x)
 return primoTR(x, x-1);
}
int main ()
 printf("%u\n", somatoria(10));
 printf("%u\n", somatoriaTR(10, 0));
 printf("%u\n", digitos(123456));
 printf("%u\n", digitosTR(123456, 0));
 printf("%u\n", soma_digitosTR(123456, 0));
 printf("%d\n", primo(324));
 printf("%d\n", primo(197));
```

```
return 0;
}
```