

VARIABLE NUMBER OF FUNCTION PARAMETERS

- Like `printf()`
- Used when we **don't know** the exact **type** and/or **quantity** of function parameters

```

#include <stdio.h>
#include <stdarg.h>
/* print all args one at a time until a negative argument is seen; all args are
assumed to be of int type */

void printargs(int arg1, ...)
{
    va_list ap;
    int i;

    va_start(ap, arg1);

    for (i = arg1; i >= 0; i = va_arg(ap, int)) {
        printf("%d ", i);
    }

    va_end(ap);

    putchar('\n');
}

int main(void)
{
    printargs(5, 2, 14, 84, 97, 15, -1, 48, -1);
    printargs(84, 51, -1, 3);
    printargs(-1);
    printargs(1, -1);
    return 0;
}

```