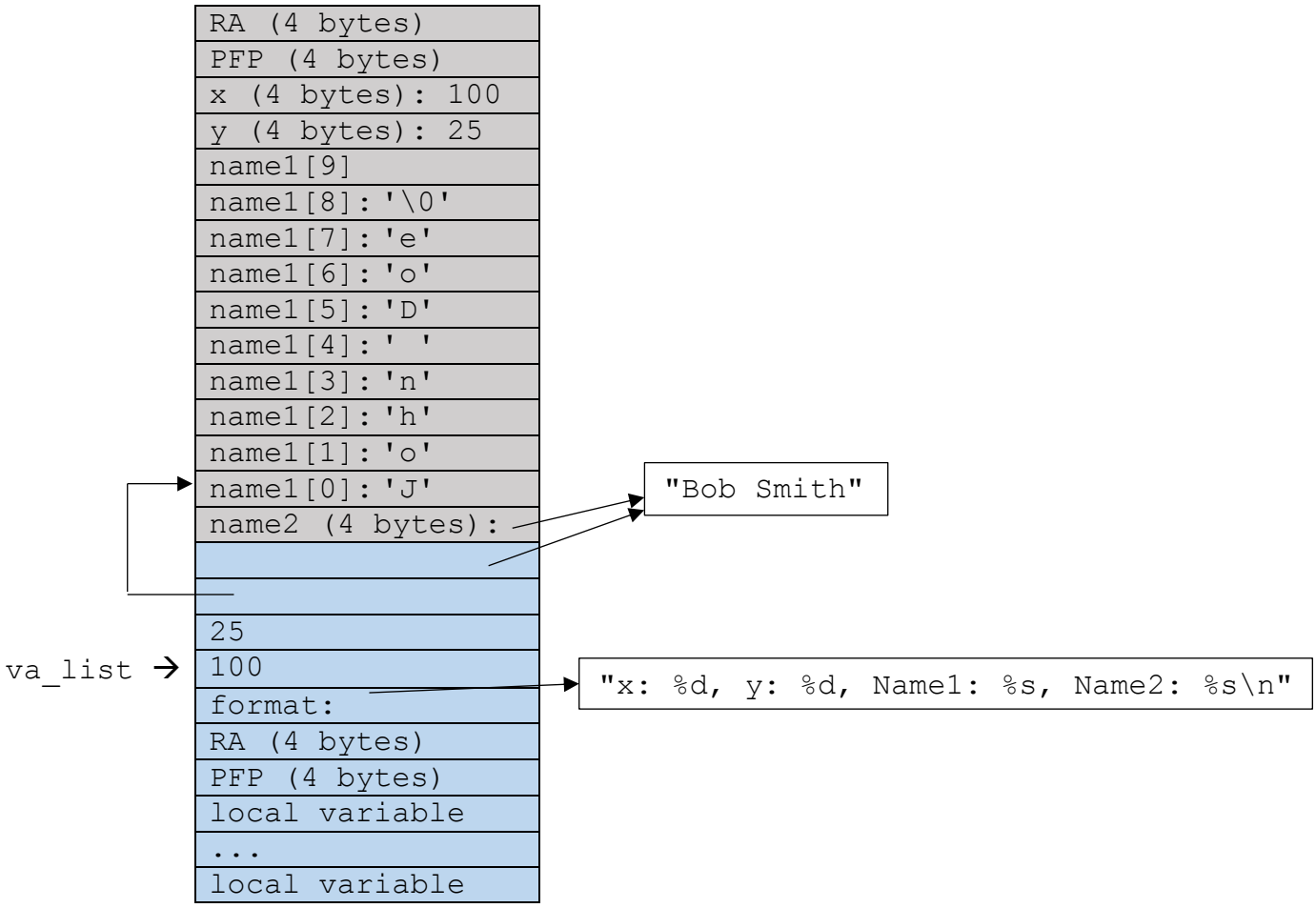
```
int main()
{
   int x = 100;
   int y = 25;
   char name1[10] = "John Doe";
   char *name2 = "Bob Smith";

   printf("x: %d, y: %d, Name1: %s, Name2: %s\n", x, y, name1, name2);

   return 0;
}
```



Stack frame of main()

Stack frame of printf()

//
// Write a function named "totstrlen" that takes a variable number of strings as its arguments, and
// returns their total length.
//
// Here is a sample call to this function which returns 46:
//
// totstrlen(3,"Grand Valley State University","Allendale","Michigan")
//
// Look at the example code (myprint.c) on pages 132-133 in the textbook
//

```
#include <stdio.h>
#include <stdarg.h>
#include <string.h>

int totstrlen(int narg, ...)
{
    va_list ap;
    int length = 0;

    va_start(ap,narg);
    for (int i = 0; i < narg; i++) {
        char *s = va_arg(ap,char *);
        length += strlen(s);
    }
    va_end(ap);

    return length;
}

int main()
{
    int len = totstrlen(3,"Grand Valley State University","Allendale","Michigan");
    printf("Total length of the strings: %d\n",len);

    len = totstrlen(4,"Computer","security","is","so much fun!");
    printf("Total length of the strings: %d\n",len);
}
```