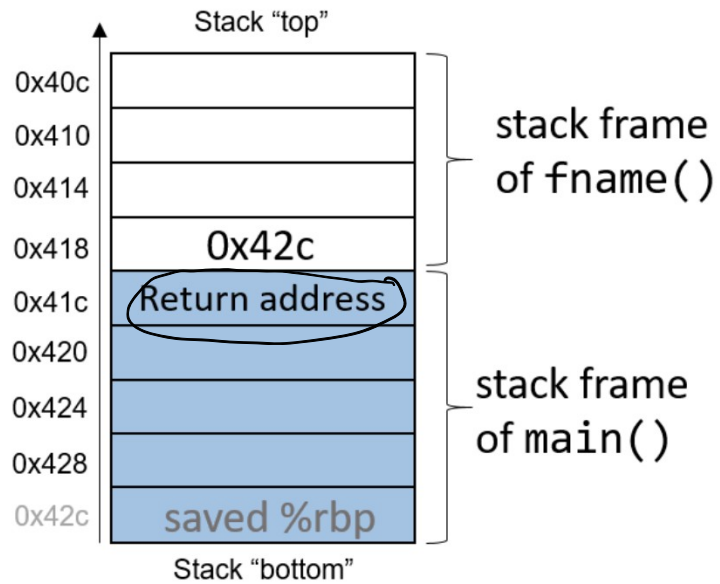


64 bit

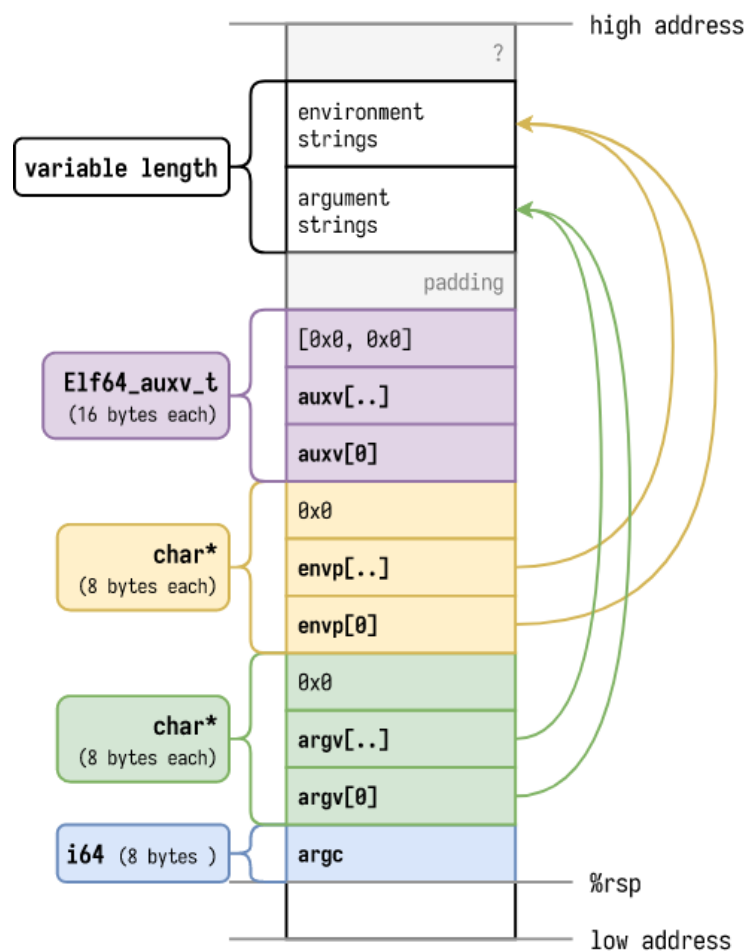
Registers	
%rsp	0x40c
%rbp	0x418



program that run on
start "nit" ?

1st process

Stack * flipped



Simple program to see how argc/argv and environ are placed on run-time stack

```
#include<stdio.h>
#include<stdlib.h>

extern char **environ;
int sum(int x, int y);

int main(int argc, char * argv[])
{
    int x;
    int y;
    if(argc != 3) {
        fprintf(stderr, "Oops, need two numbers\n");
        exit(1);
    }
    //assuming the two arguments are integers
    x = atoi(argv[1]);
    y = atoi(argv[2]);
    int z = sum(x,y);
    printf("z = %d\n", z);
    return 0;
}

int sum(int x, int y)
{
    return x+y;
}
```

Reverse engineer the code to see how the environment is passed into the program (along with argc/argv)

- hexdump
- objdump
- gdb – bested used when you need to look at the program while it's running.