

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <string.h>
4
5  #include <pthread.h>
6
7  void * func(void *a)
8  {
9      static int i = 0;
10     int j = 0;
11
12     int * k = malloc(sizeof(int));
13
14     printf("adress for data in globals: %p\n", &i); //variable on thread private stack
15     printf("adress for data on stuck: %p\n", &j); //variable in threads common globals
16     printf("adress for data in heap: %p\n\n", k); //variable in threads common heap
17
18     free(k);
19 }
20
21
22 int main(int argc, const char * argv[]) {
23
24     pthread_t t0, t1;
25     void * results;
26
27     pthread_create(&t0, NULL, func, NULL);
28     pthread_join(t0, results);
29
30     pthread_create(&t1, NULL, func, NULL);
31     pthread_join(t1, results);
32 }
```