```
#include <stdio.h>
    #include <stdlib.h>
    #include <string.h>
                                                               Page Jof 2
                                                               - Mappins the print statement
    typedef struct new struct{
      int the int;
                                                                 to the output statements
      float the float;
      double the_double;
    }new_struct;
    int main( const int argc, const char* argv[] ){
      new_struct static_str = {
        atoi(argv[1]),
        (float)atof(argv[2]),
        atof(argv[3])
     };
  fprintf(stdout, "%p\n", &static_str );
  fprintf(stdout, "%p %d\n", &static_str.the_int, static_str.the_int );
   fprintf(stdout, "%p %f\n", &static_str.the_float, static_str.the_float );
   fprintf(stdout, "%p %lf\n", &static_str.the_double, static_str.the_double );
           // Step 4: Dynamically Allocate a NEW_STRUCT
     new_struct* dynamic_str = (new_struct *)malloc( sizeof(new_struct) );
           // Step 6: De-reference and set values for the int, long unsigned int, and float
     dynamic_str->the_int = atoi( argv[4] );
     dynamic_str->the_float = (float)atof( argv[5] );
     dynamic_str->the_double = atof( argv[6] );
  fprintf( stdout, "%p %p\n", &dynamic_str, dynamic_str );
  fprintf( stdout, "%p %d\n", &dynamic_str->the_int, dynamic_str->the_int );
fprintf( stdout, "%p %f\n", &dynamic_str->the_float, dynamic_str->the_float );
   fprintf( stdout, "%p %lf\n", &dynamic_str->the_double, dynamic_str->the_double );
     free( dynamic_str );
     return EXIT_SUCCESS;
   };
   Output: from ./structs 10 13.2 14.1 9 47.7 -23.6
① 0x7ffd61bb1e70
(2) 0x7ffd61bb1e70 10
🕏 0x7ffd61bb1e74 13.200000
(%) 0x7ffd61bb1e78 14.100000
(5)0x7ffd61bb1e68 0x5565663a46b0
@ 0x5565663a46b0 9
@ 0x5565663a46b4 47.700001
```

@ 0x5565663a46b8 -23.600000

Stack

10 Oxe70

10 Oxe70

13.2 Oxe74

Registers

41.7 0x669

Roynamic\_str

-23.6 0x668

14.1 Gxe78

Aynamic

Static

Page 2of2

Me mory Map Answer

- Me mory Map Answer