```c
struct faculty {
    char * name;
    char area [8];
    int num-students;
};

int main ()  {
    struct faculty p1;
    p1.name = "Roger";
    strncpy(p1.area, "ML", 8);
    p1.num_students = 10;

    struct faculty *p2-pt;
    p2_pt = malloc(sizeof(
               struct faculty));
    p2_pt->name = "Sheila";
    strncpy(p2_pt->area, "KRR", 8);
    p2_pt->num_students = 11;

    add_student(&p1);
    add_student(p2_pt);

    f(p1);
    f(*p2_pt);

}

void add_grad_student(struct faculty *p){
    p->num_students++;
}

void f(struct faculty p){
    p.area[0] = 'A';
}
```

Section	Address	Value	Label
Read only	0x100	Ro ge	
	0x104	r \0 ? ?	
	0x108	M L \0 ?	
	0x10c	Shei	
	0x110	l a \0 ?	
	0x114	K R R \0	
	0x118	? ? ? ?	
trap	0x11c	0x10c	
	0x120		
	0x124	K R R 10	
	0x128	? ? ? ?	
	0x12c	11	
	0x130		
	0x134		
f	0x138	0x100	
	0x13c	A L \0 ?	
	0x140	? ? ? ?	
	0x144		
	0x148	10	
add-grad-student	0x14c	0x154	
	0x150		
main	0x154	0x100	p1
	0x158		
	0x15c	M L \0 ?	
	0x160	? ? ? ?	
	0x164	10 11	
	0x168	0x11c	p2-pt
	0x16c		