```
#ifndef LINKED LIST H
 2
     #define LINKED LIST H
 3
 4
     #include <stdlib.h>
 5
    typedef struct node {
 6
 7
        void *job;
8
        size t job size;
9
        void *owner;
10
         struct node *next;
11
         struct node *prev;
12
     } list;
13
14
     list *create list () {
15
         list *new list = (list *) malloc(sizeof(list));
16
         new list->job = NULL;
17
         new_list->job_size = 0;
18
         new list->owner = NULL;
19
         new list->next = NULL;
20
         new list->prev = NULL;
21
22
         return new list;
23
     }
24
25
    void add job (list *1, void *job, size t job size, void *owner) {
26
         struct node *job node = (struct node *) malloc(sizeof(struct node));
27
         job node->job = job;
28
         job_node->job_size = job_size;
29
         job node->owner = owner;
30
31
         struct node *current = 1;
32
         while (current->next != NULL) {
33
             if (job size < current->job size) {
34
                 job node->next = current;
                 job node->prev = current->prev;
35
36
                 current->prev->next = job node;
37
                 current->prev = job node;
38
39
                 return;
40
             }
41
42
             current = current->next;
43
         }
44
45
         current->next = job node;
46
         job node->prev = current;
47
     }
48
49
50
51
    void *get job (list *l) {
52
         list *nd = 1-next;
53
         if (!nd) return NULL;
54
         void *job = nd->job;
55
56
         if (1->next->next)
57
             1-next->next->prev = 1;
58
         1->next = 1->next->next;
59
60
         return nd;
61
     }
62
63
     #endif
64
```