```c
// Programming 1. Sample at 2017-04-06-13-41.05
#include <stdio.h>
#include <sys/types.h>
#include <dirent.h>
#include <string.h>

void list_dir(const char *startdir)
{
  char current_path[10000];
  strcpy(current_path,startdir);

  DIR *dir = opendir(current_path);
  struct  dirent *de = readdir(dir);

  if(dir)
    while(de)
    {
     printf("[%s/%s] %d\n",current_path,de->d_name,de->d_type);

     if( de->d_type == DT_DIR &&
       0!=strcmp(".",de->d_name) && 0!=strcmp("..",de->d_name))
     {
      int path_len = strlen(current_path);
      strcat(current_path,"/");
      strcat(current_path,de->d_name);
      list_dir(current_path);
      current_path[path_len] = '\0';
     }
     de = readdir(dir);
    }

  closedir(dir);
}

int main(int c, char **v, char **env )
{
  for(int i=0;i<c;++i)
    printf("->%s\n",v[i]);

  for(int i=0;i<1000 && env[i]!=NULL; i++)
    printf("%s\n",env[i]);

  if(c==2)
  {
    list_dir(v[1]);
  } else
  {
    list_dir(".");
  }
  return 0;
```

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}
```

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