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// 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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