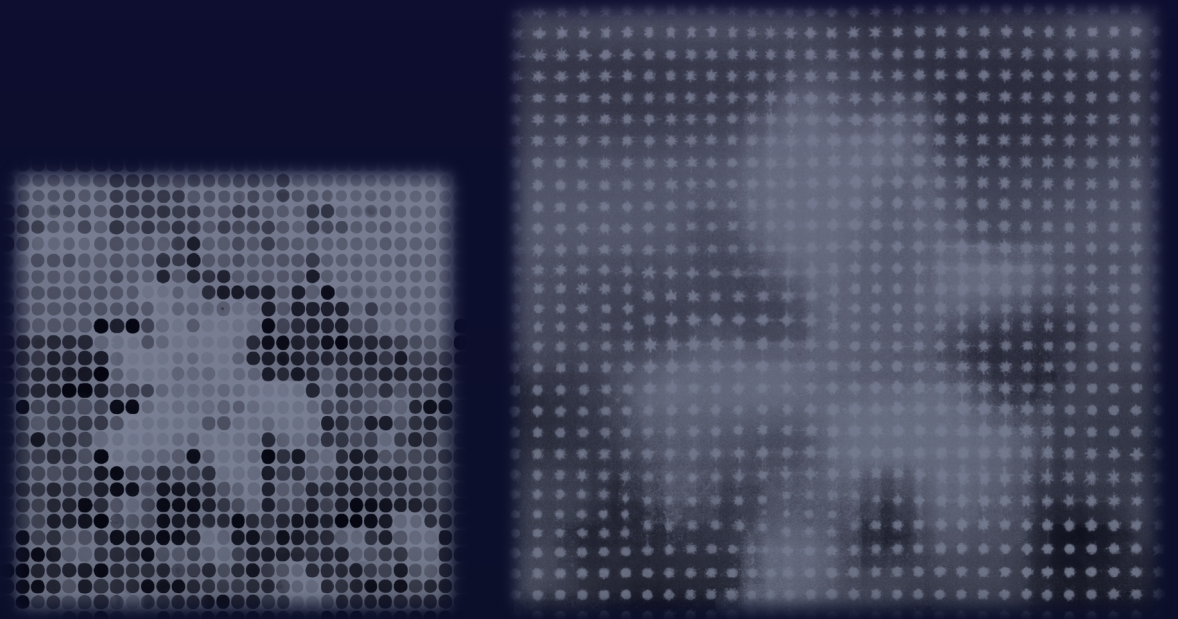
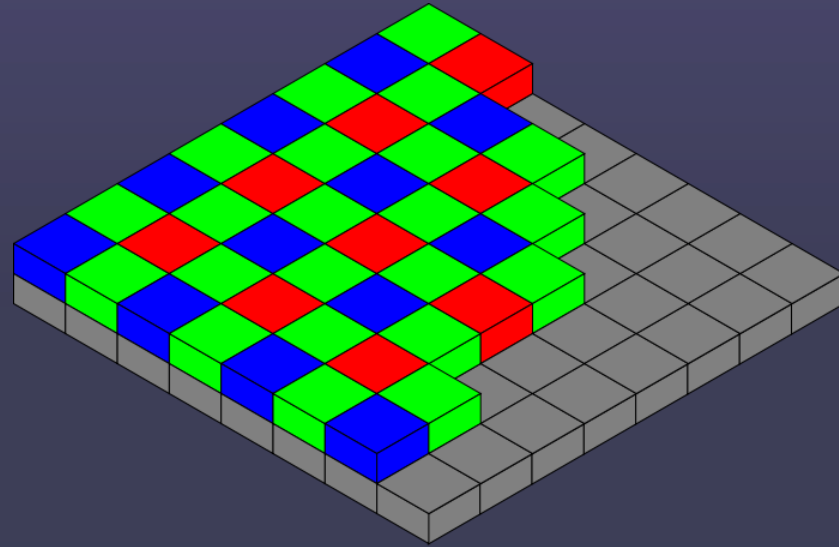

데이터 구조 실습 과제 안내

Data structure 1st Assignment introduce

2022 09 16



Read [raw] file

[illegible]

Read [.raw] file



246	255	250	245	253	255	255	255	0	0	0	0	0	0	0	0
167	192	207	221	245	255	255	255	167	0	0	0	0	0	0	0
128	127	136	157	194	224	246	255	128	127	136	157	0	0	0	0
175	154	134	123	127	139	165	186	175	154	134	123	127	139	165	0
165	163	162	175	156	134	123	120	165	163	162	175	156	134	123	120
64	98	130	163	163	173	179	163	0	98	130	163	163	173	179	163
10	19	41	65	96	132	159	188	0	0	0	0	96	132	159	0
4	9	13	16	23	35	57	93	0	0	0	0	0	0	0	0

```
1  #include "stdio.h"
2  #pragma warning(disable:4996)
3
4  void main(void)
5  {
6      int width = 512, height = 512;
7
8      FILE* input_file, * output_file;
9
10     unsigned char input_data[512][512];
11     unsigned char output_data[512][512];
12
13
14     input_file = fopen("./images/couple.raw", "rb");
15     if (input_file == NULL)
16     {
17         printf("File not found!!\n");
18         return;
19     }
20     fread(input_data, sizeof(unsigned char), width * height, input_file);
21
22
23     for (int i = 0; i < height; i++)
24         for (int j = 0; j < width; j++)
25             output_data[i][j] = 255 - input_data[i][j];
26
27
28     output_file = fopen("./couple_change.raw", "wb");
29     fwrite(output_data, sizeof(unsigned char), width * height, output_file);
30
31
32     fclose(input_file);
33     fclose(output_file);
34 }
35
36
```

Read [.csv] file

RAW 파일의 읽기와 동일

filesnumbers

100	The man was sitting.raw
200	Lena is awesome.raw
300	The boat on the lake
400	The man and woman
500	There are lots of people
600	Drop of milk
700	There are airplanes

```
#include <stdio.h>

int main(int argc, char *argv[]) {

    char str_tmp[1024];
    FILE *pFile = NULL;

    pFile = fopen("filenumber.csv", "r" );
    if( pFile != NULL )
    {
        while( !feof( pFile ) ){
            fgets( str_tmp, 1024, pFile );
            printf( "%s", str_tmp );
        }
    }
    fclose( pFile );

    return 0;
}
```

이미지의 밝기 변경



0	10	15	15	15	15
10	20	20	60	10	10
15	20	30	5	10	10
15	60	5	5	5	5
15	10	10	5	5	5
15	20	20	5	5	5

이미지의 밝기 변경



10	20	25	25	25	25
20	30	30	70	20	20
25	30	40	15	20	20
25	70	15	15	15	15
25	20	20	15	15	15
25	30	30	15	15	15

최대 값 일시에는 최대값으로 고정 (255)
최소 값 일시에는 최소값으로 고정 (0)

이미지의 압축



10	20	25	25	25	25
20	30	30	70	20	20
25	30	40	15	20	20
25	70	15	15	15	15
25	20	20	15	15	15
25	30	30	15	15	15

이미지의 압축



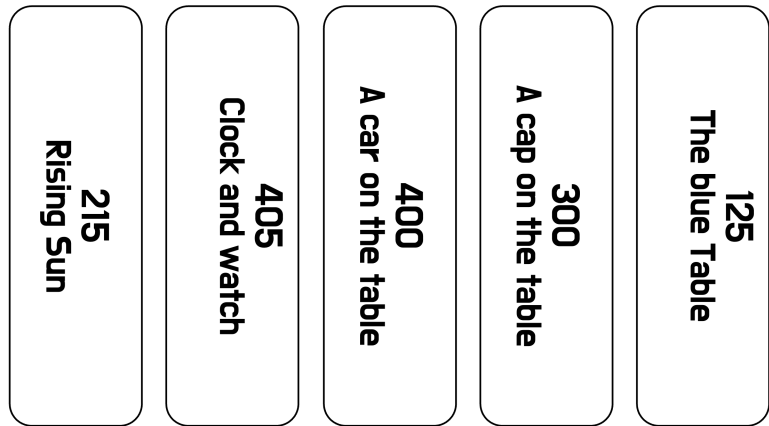
$$(10+20+20+30) / 4$$

소수점 한자리 수는 반올림

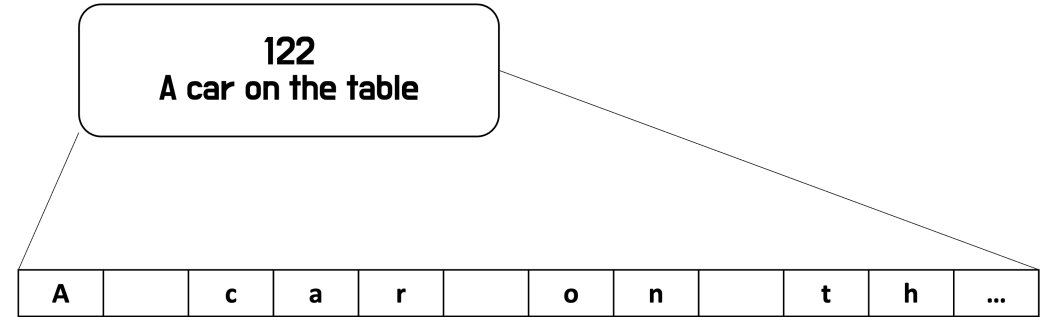
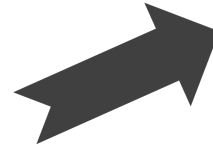
10	20	25	25	25	25
20	30	30	70	20	20
25	30	40	15	20	20
25	70	15	15	15	15
25	20	20	15	15	15
25	30	30	15	15	15

10	20	20	38	23
20	30	38	21	18
		25	20	15

보이어무어 알고리즘



POP



Search Pattern - Not Match

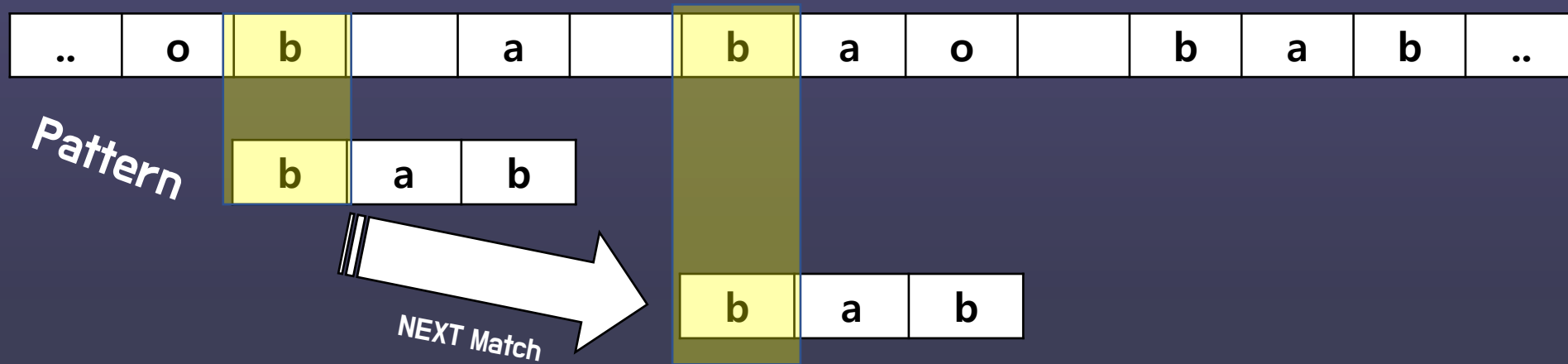


Search Pattern -Match

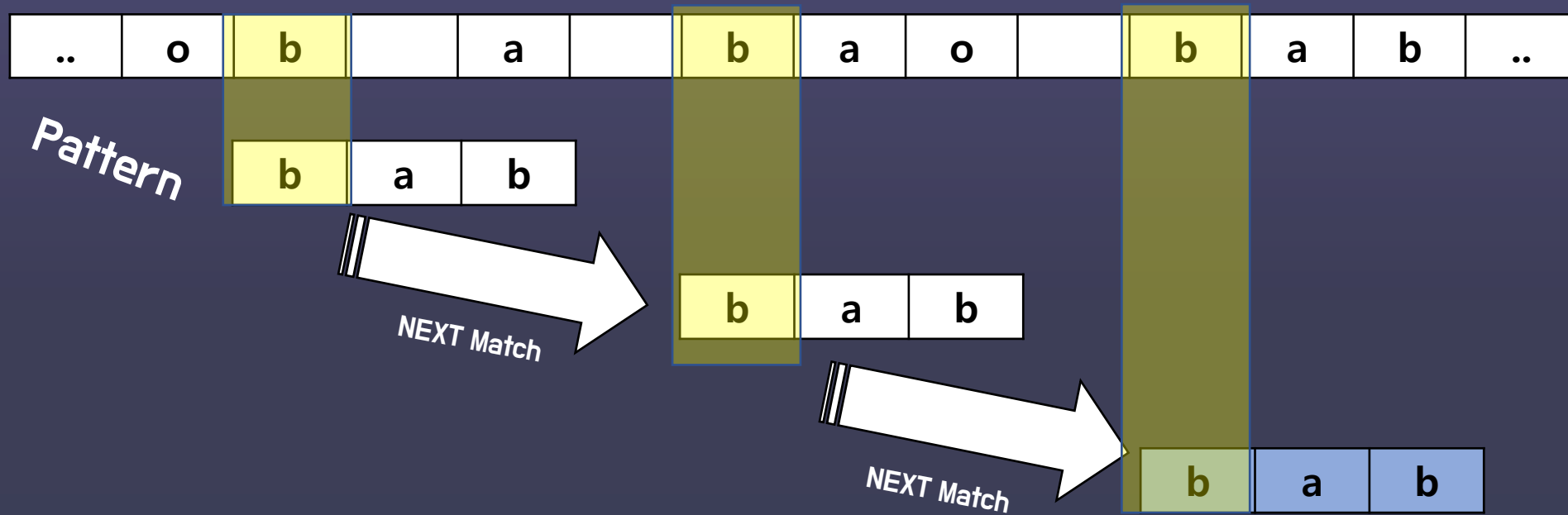


보이어무어 알고리즘

보이어무어 알고리즘



보이어무어 알고리즘



역순 검색도 상관 없음

2022_Kwangwoon_Univ_CE_DS_Project_1

Please read Update Notes regularly before proceeding with the task and check for any updates before proceeding.

Key questions and answers will be update on the Issues page.

Practical Class Documents

None

Update Notes

20220914 - Staging Level

Assignment Spec Documents prepared to release

How to Clone Repository

```
sudo apt-get install git
git clone https://github.com/Lukious/2022_Kwangwoon_Univ_CE_DS_Project_1
```


Lukious / 2022_Kwangwoon_Univ_CE_DS_Project_1

Public

Pin

Unwatch 1

Fork 0

Star 0

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Label issues and pull requests for new contributors

Dismiss

Now, GitHub will help potential first-time contributors [discover issues](#) labeled with **good first issue**

Filters

is:issue is:open

Labels 9

Milestones 0

New issue

Welcome to issues!

Issues are used to track todos, bugs, feature requests, and more. As issues are created, they'll appear here in a searchable and filterable list. To get started, you should [create an issue](#).

Lukious / 2020_Kwangwoon_Univ_CE_DS_Project_3

Public

Pin

Unwatch 2

Fork 0

Star 1

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Label issues and pull requests for new contributors

Dismiss

Now, GitHub will help potential first-time contributors [discover issues](#) labeled with [good first issue](#)

Filters

is:issue is:closed

Labels 9

Milestones 0

New issue

Clear current search query, filters, and sorts

0 Open

39 Closed

Author

Label

Projects

Milestones

Assignee

Sort

Makefile 수정 관련

#39 by MangoCubes was closed on 23 Dec 2020

컴파일 관련 감점

#38 by MangoCubes was closed on 3 Dec 2020

1

BFS 경로 거리 관련 질문입니다.

#37 by doombabo was closed on 3 Dec 2020

1

간선 비용 줄이는 방법

#36 by MangoCubes was closed on 3 Dec 2020

1

#31에 이어 추가 질문입니다.

#35 by MangoCubes was closed on 3 Dec 2020

1