Intekplus 과제
잔류의 종류 판별(TG01, TG02)
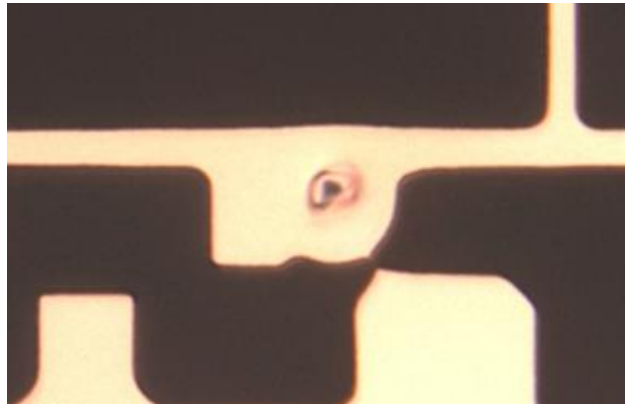
안재원

목차

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02 과제 진행 과정

03 진행 내용

- IAProgram


```
image.StretchBlt(dc.m_hDC, 0, 0, rect.Width(),rect.Height(), 0, 0, image.GetWidth(), image.GetHeight());
```

대상디바이스핸들

화면에서 출력될 좌표

화면에서 영상이 출력될 크기

영상에서 출력할 좌표

영상에서 출력될 크기
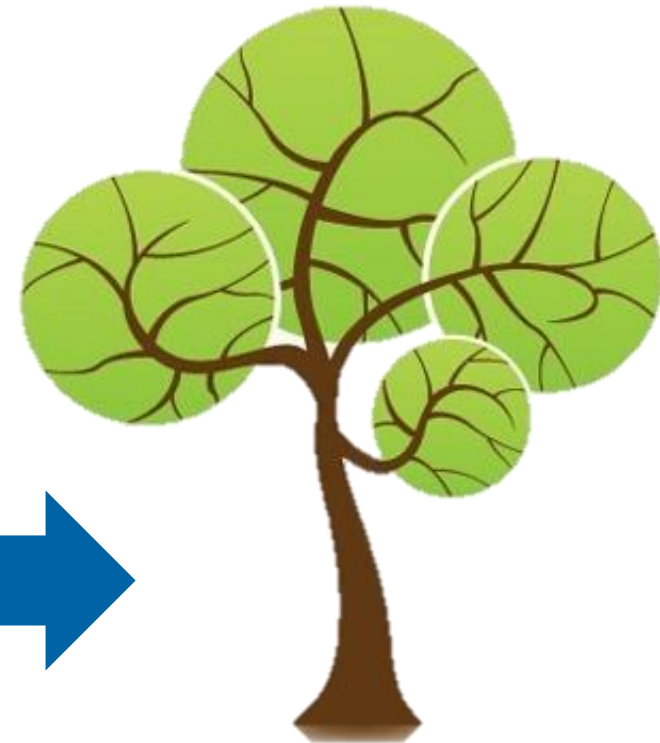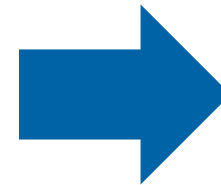
03 진행 내용

- IAProgram

CImage Class

→ CImage::GetPixel

→ CImage::SetPixel

→ CImage::GetHeight

→ CImage::GetWidth

```
int x, y;
for (int j = 0; j < rect.Height(); j++)
{
    for (int i = 0; i < rect.Width(); i++)
    {
        x = (int)(m_SubImage.GetWidth()*i / rect.Width());
        y = (int)(m_SubImage.GetHeight()*j / rect.Height());

        image.SetPixel(i, j, m_SubImage.GetPixel(x, y));
    }
}
```

ISL Image System Laboratory
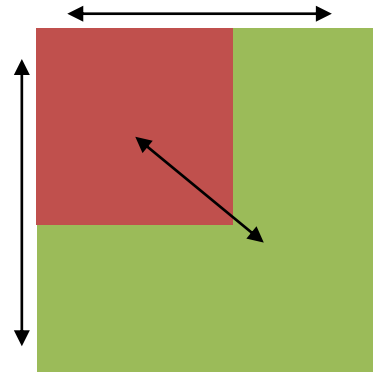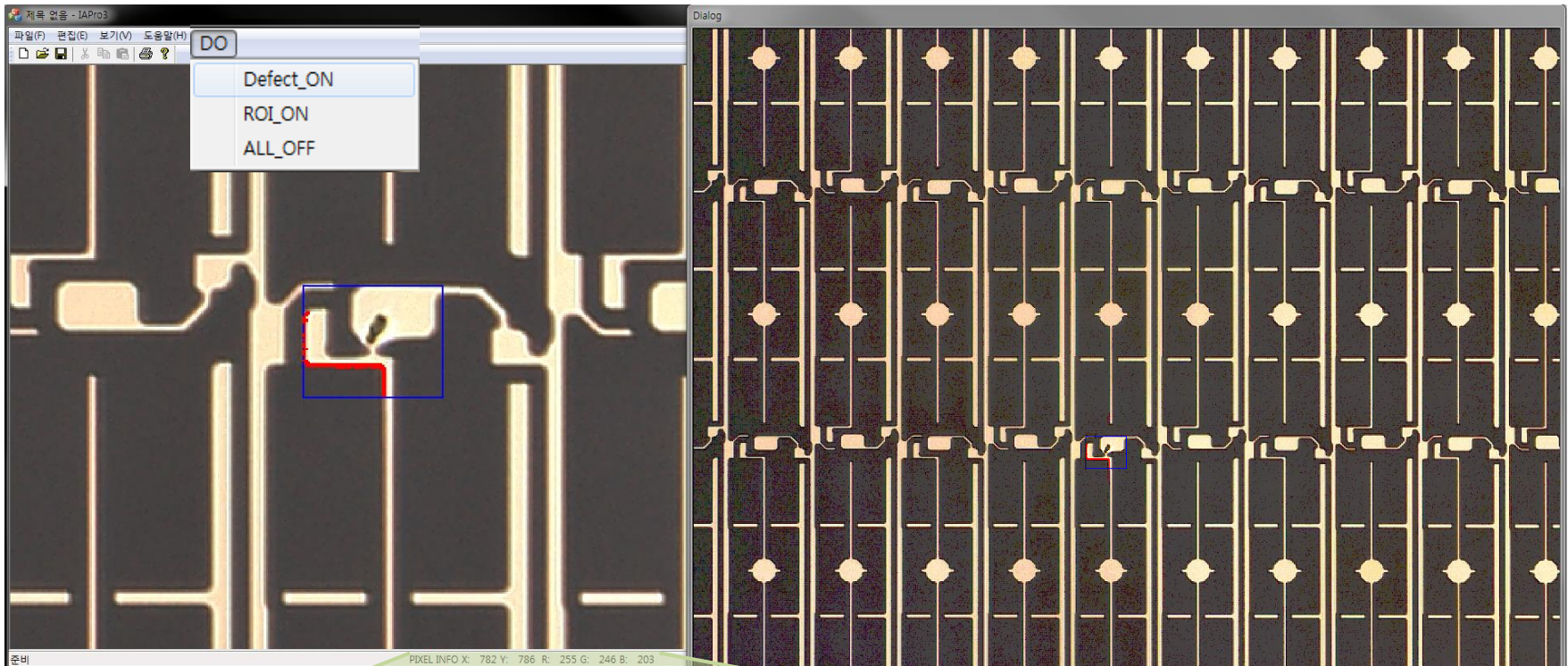
03 진행 내용

- IAProgram

PIXEL INFO X: 782 Y: 786 R: 255 G: 246 B: 203

03

진행 내용

- IAProgram

03 진행 내용

- IAProgram
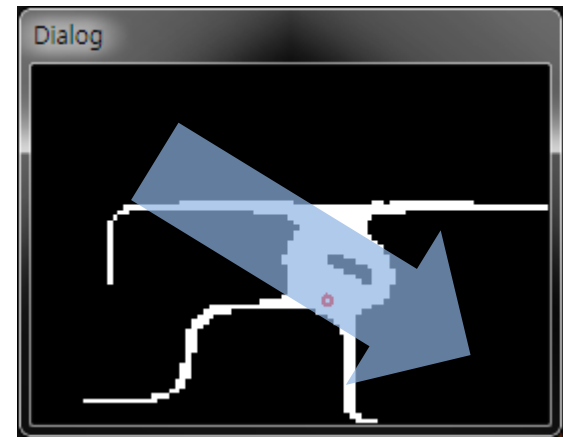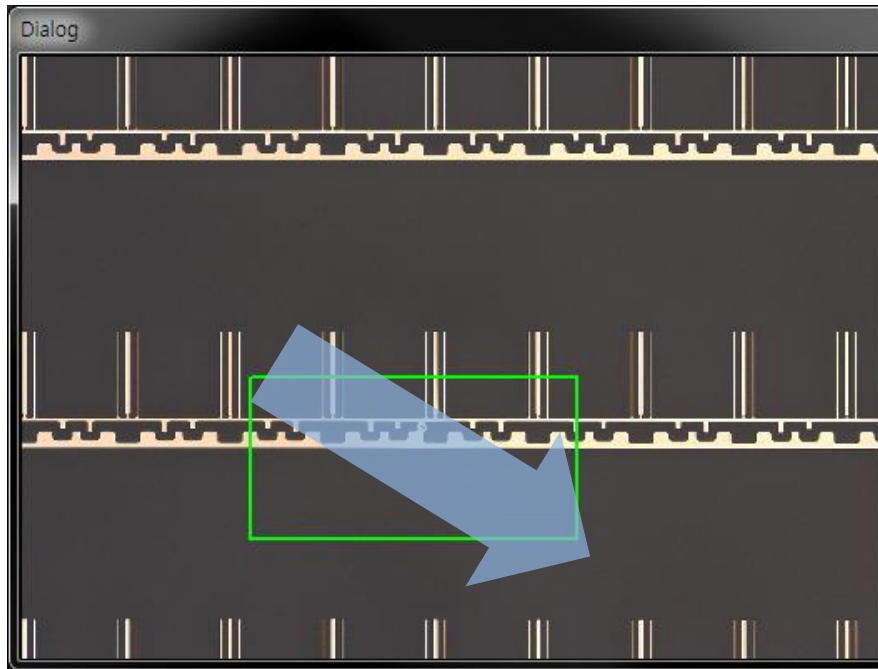
03 진행 내용

- ADProgram

03 진행 내용

- ADProgram


```
ifstream names_file;
names_file.open(names_file_name, ios::in | ios::_Nocreate);
```

File path & name

```
names_file.close();
```
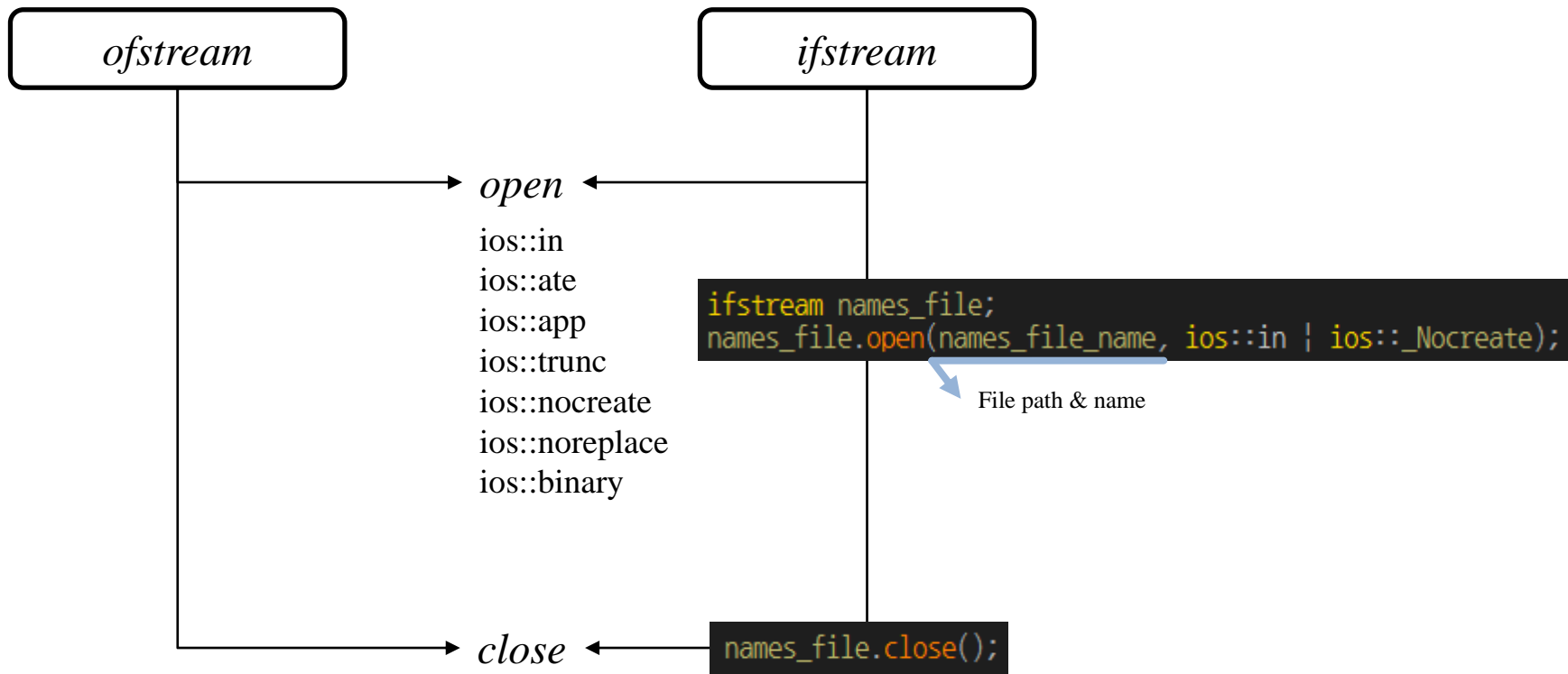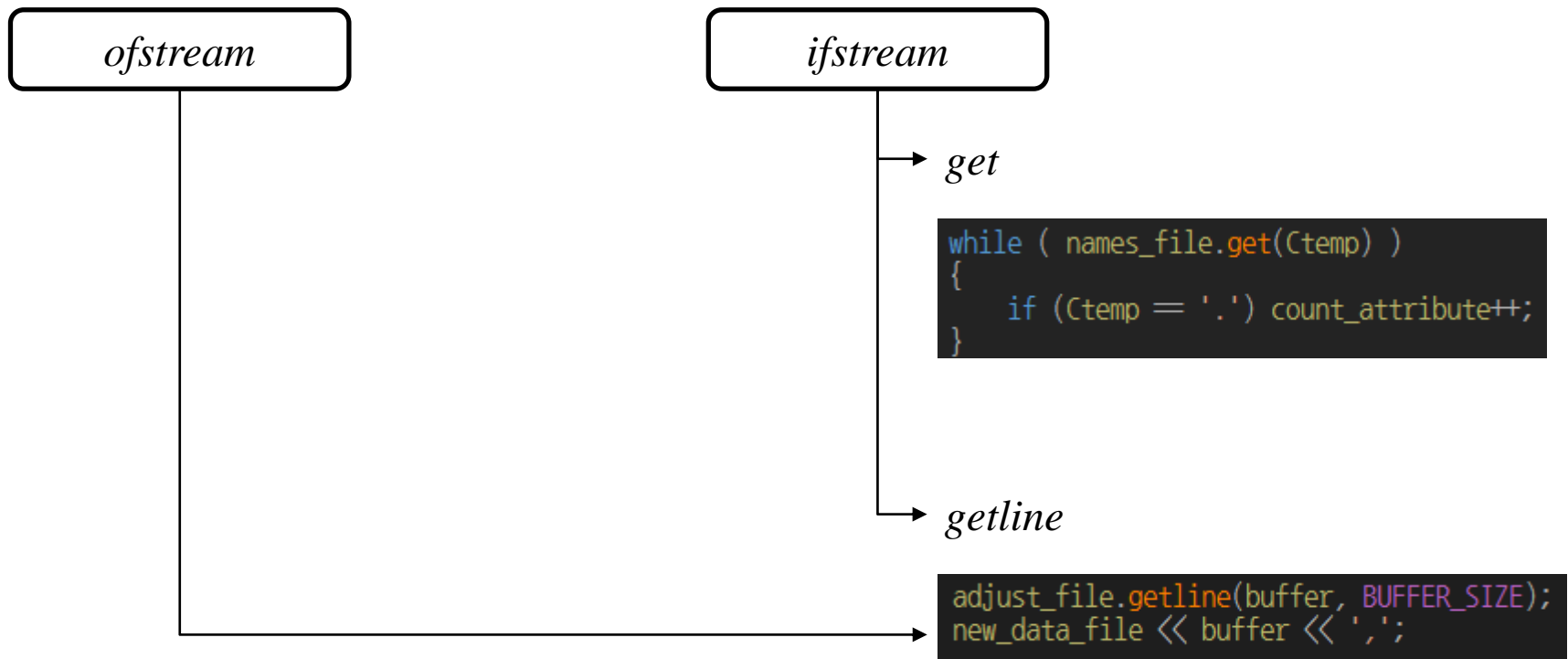
03 진행 내용

- ADProgram

03 진행 내용

- ADProgram

  *.add file

Attribute names →

R Standard Deviation, G Standard Deviation, B Standard Deviation, Gray Standard Deviation, H number, S number, H diff, S diff.
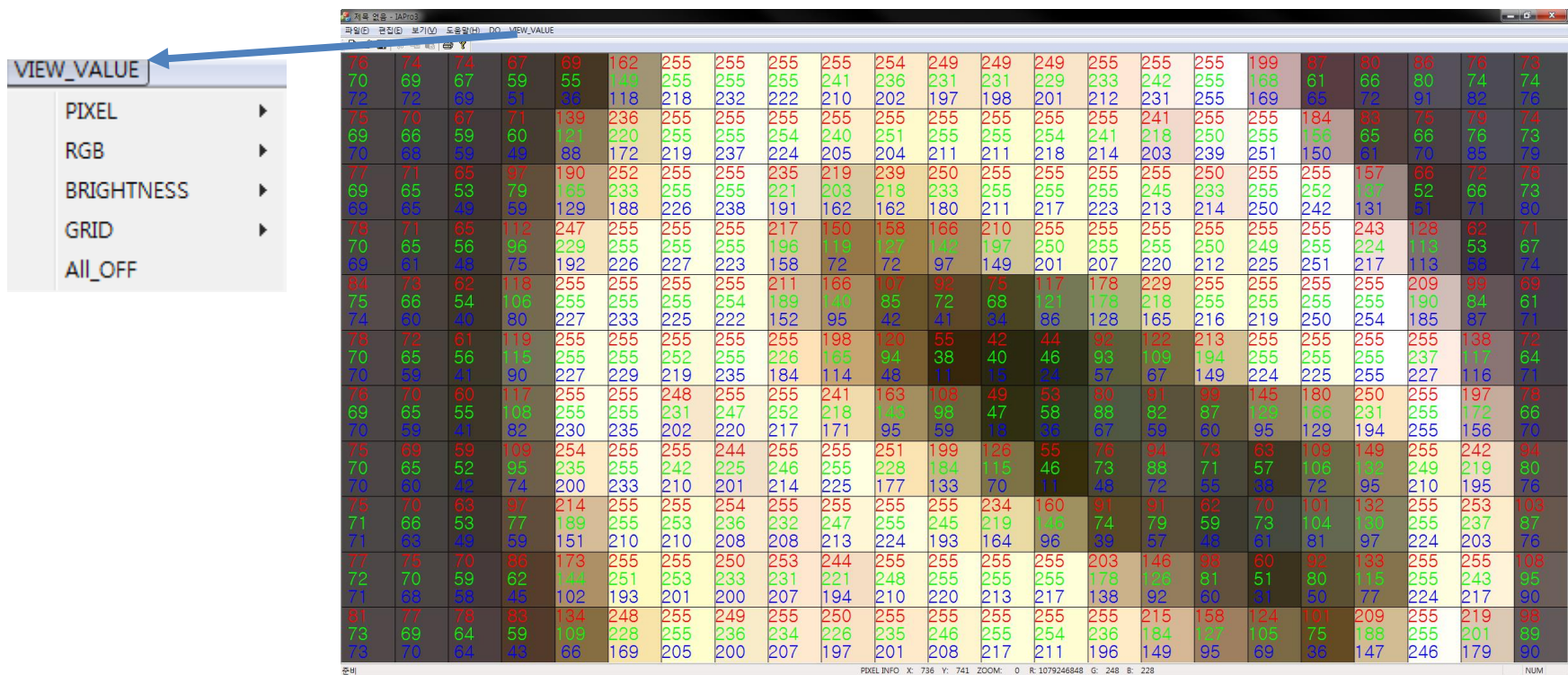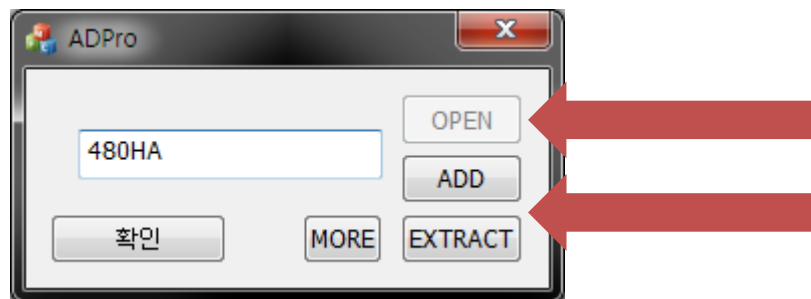
continuous
continuous
continuous
continuous
Attribute Type
continuous
continuous
continuous
continuous

11.569074,	12.261340,	9.354838,	11.629348,	69,	109,	0.040750,	0.183269
25.808874,	31.522776,	27.192827,	28.980278,	46,	60,	0.180000,	0.060000
24.249540,	26.158482,	25.609692,	24.640965,	71,	101,	0.089613,	0.036660
20.349173,	21.923538,	22.463125,	21.133499,	41,	73,	0.057377,	0.024590
16.349102,	18.647818,	18.341785,	17.285519,	61,	89,	0.140120,	0.022754
17.571026,	19.592869,	16.508945,	18.427174,	63,	99,	0.105559,	0.068082
25.301126,	26.386049,	24.284542,	25.367060,	70,	81,	0.149153,	0.033898
20.966528,	27.050076,	29.056023,	25.049217,	60,	95,	0.298742,	0.072327
19.581137,	24.414680,	26.863298,	22.475409,	68,	87,	0.187135,	0.026316

Attribute Values

.
.
.

03 진행 내용

- ADProgram

  *.add file


```
480HA.add - 메모장
파일(F)  편집(E)  서식(O)  보기(V)  도움말(H)
R Standard Deviation, G Standard Deviation, B Standard Deviation, Gray Standard Deviation, H number, S number, H diff, S diff.
continuous
continuous
continuous
continuous
continuous
continuous
continuous
continuous
11.569074,      12.261340,      9.354838, 11.629348,        69,      109,    0.040750, 0.183269
25.808874,      31.522776,      27.192827,      28.980278,      46,      60,    0.180000, 0.060000
24.249540,      26.158482,      25.609692,      24.640965,      71,      101,   0.089613, 0.036660
20.349173,      21.923538,      22.463125,      21.133499,      41,      73,    0.057377, 0.024590
16.349102,      18.647818,      18.341785,      17.285519,      61,      89,    0.140120, 0.022754
17.571026,      19.592869,      16.508945,      18.427174,      63,      99,    0.105559, 0.068082
25.301126,      26.386049,      24.284542,      25.367060,      70,      81,    0.149153, 0.033898
20.966528,      27.050076,      29.056023,      25.049217,      60,      95,    0.298742, 0.072327
19.581137,      24.414680,      26.863298,      22.475409,      68,      87,    0.187135, 0.026316
```
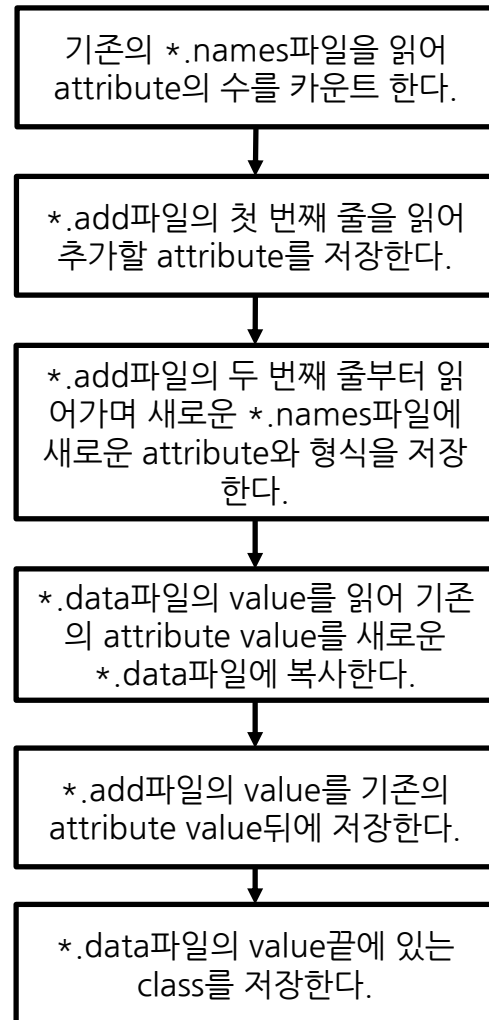
기존의 *.names파일을 읽어 attribute의 수를 카운트 한다.

↓

*.add파일의 첫 번째 줄을 읽어 추가할 attribute를 저장한다.

↓

*.add파일의 두 번째 줄부터 읽어가며 새로운 *.names파일에 새로운 attribute와 형식을 저장한다.

↓

*.data파일의 value를 읽어 기존의 attribute value를 새로운 *.data파일에 복사한다.

↓

*.add파일의 value를 기존의 attribute value뒤에 저장한다.

↓

*.data파일의 value끝에 있는 class를 저장한다.

03 진행 내용

- **ADProgram**

  *.extract file

480HA.extract - 메모장

파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)

Defect Compactness Ratio
Pattern Intensity
Corner Pattern Residue
Normalized Edge Power
Intenisty Standard Deviation
RGB ratio (R)
RGB ratio (G)
RGB ratio (B)
Area
Defect Type
Defect Bright Ratio

Attribute names
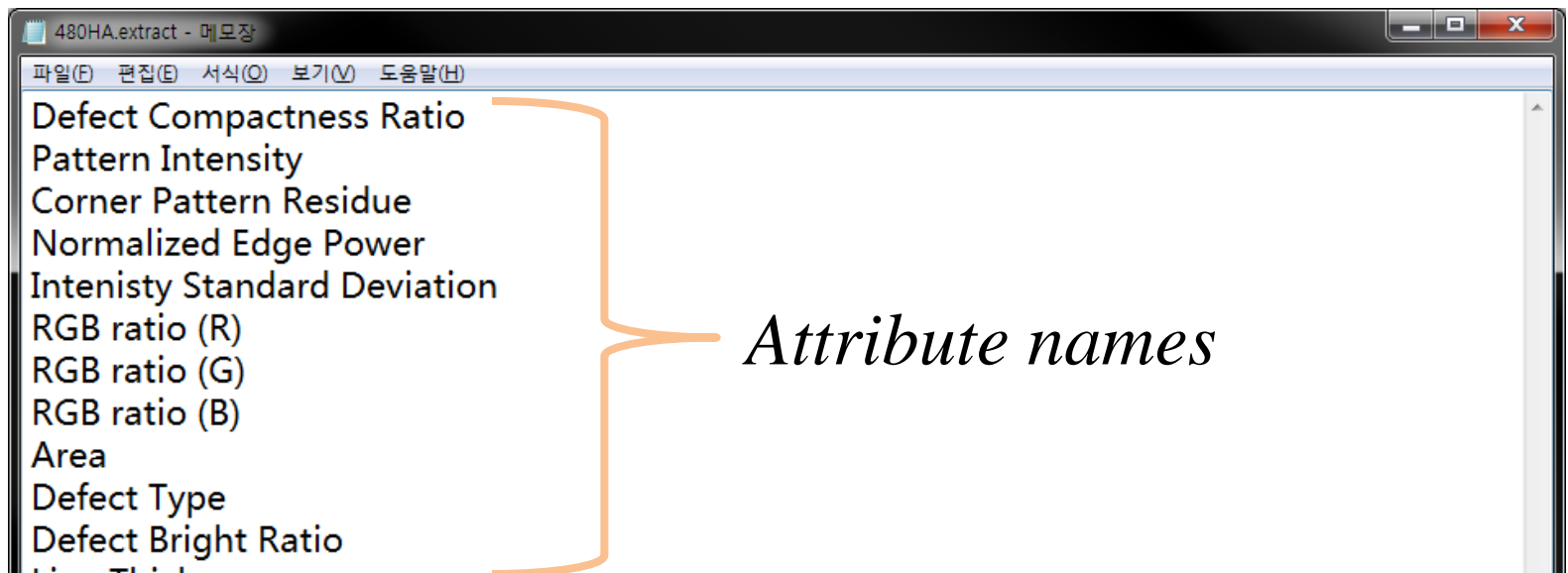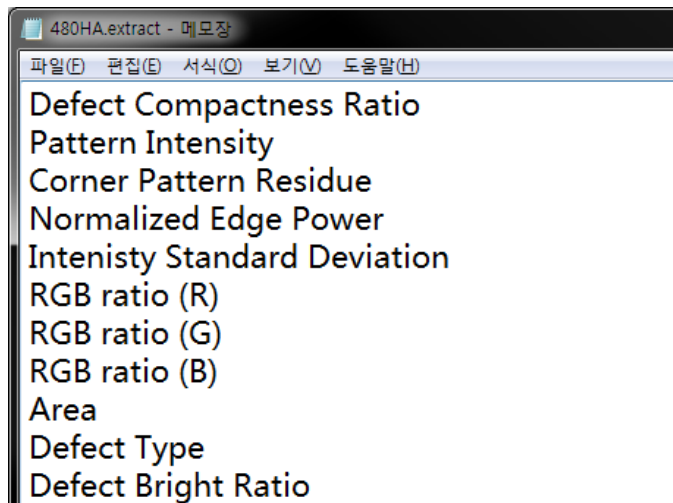
03 진행 내용

- **ADProgram**

  *.extract file

*.extract파일을 읽어 extract할 attribute name을 저장한다.

*.names 파일을 읽어 저장된 attribute name과 같으면 저장하고, 몇 번째 Attribute인지 저장한다.

*.data파일의 value중 저장된 번째의 value를 저장한다.

*.data의 attribute value저장이 끝나면 마지막에 있는 class를 저장한다.

감사합니다.

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*.names파일 & *.data파일.

golf.names - 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)

Play, Don't Play.

outlook: sunny, overcast, rain.
temperature: continuous.
humidity: continuous.
windy: true, false.

여기에 새로운 항목이 추가.

golf.data - 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)

sunny, 85, 85, false, Don't Play
sunny, 80, 90, true, Don't Play
overcast, 83, 78, false, Play
rain, 70, 96, false, Play
rain, 68, 80, false, Play
rain, 65, 70, true, Don't Play
overcast, 64, 65, true, Play
sunny, 72, 95, false, Don't Play
sunny, 69, 70, false, Play

여기에 새로운 항목이 추가.