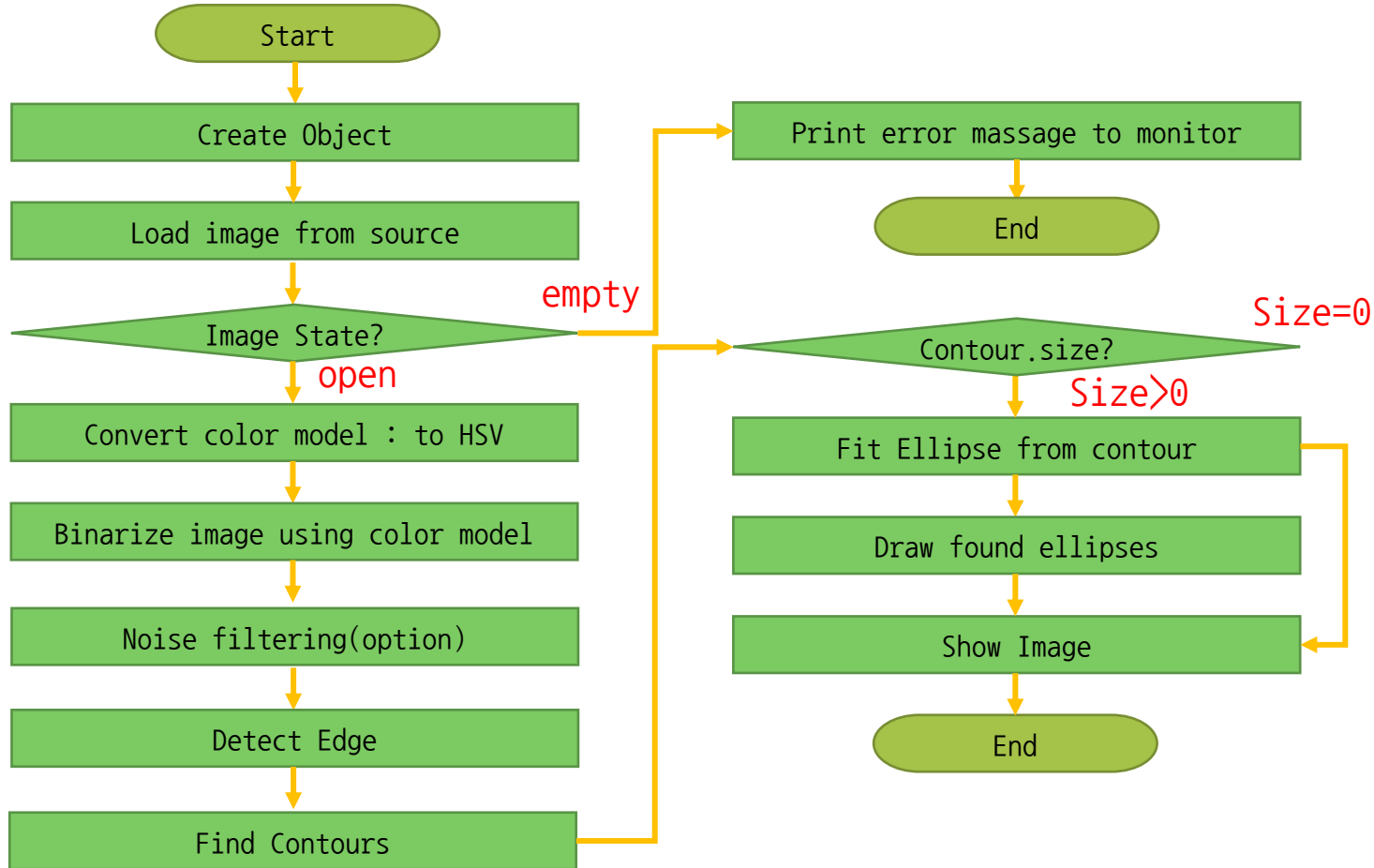# 연구실 세미나 : 프로그래밍 교육 (OpenCV)
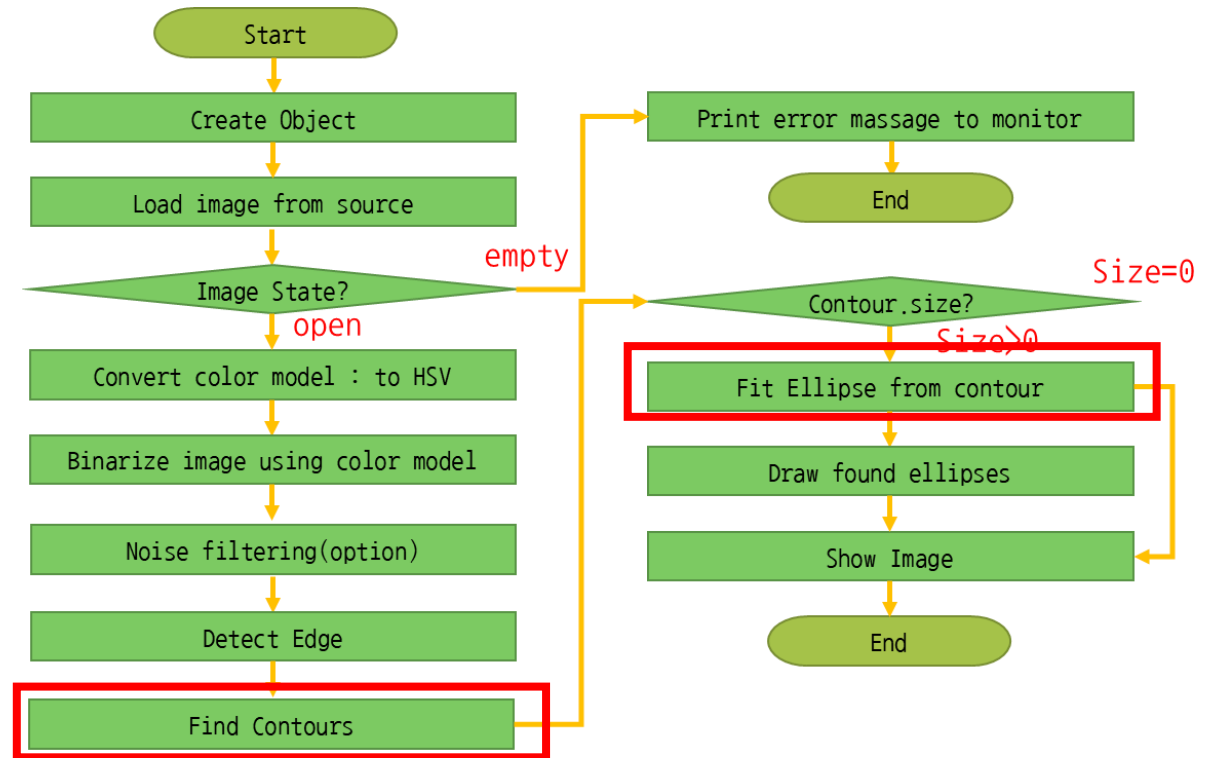
모서리 검출 및 타원 찾기
Ellipse Finding
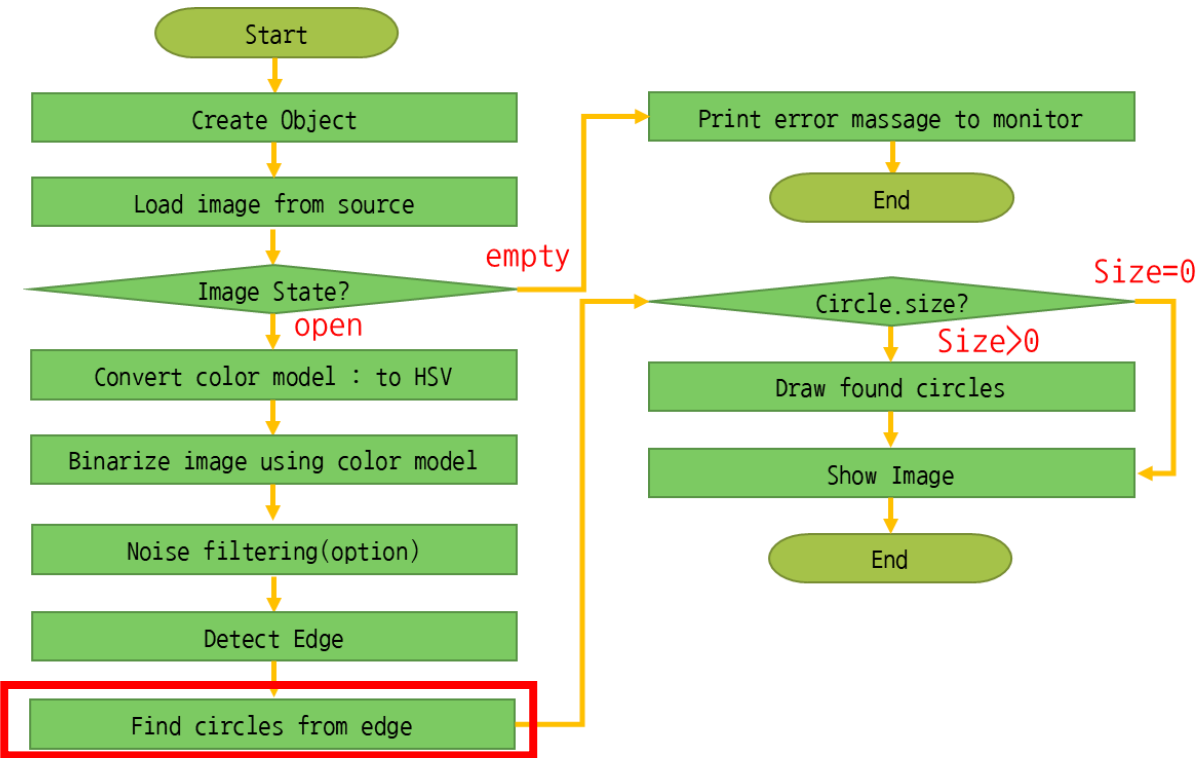
Amylose

DATE : 2019-08-28 WED
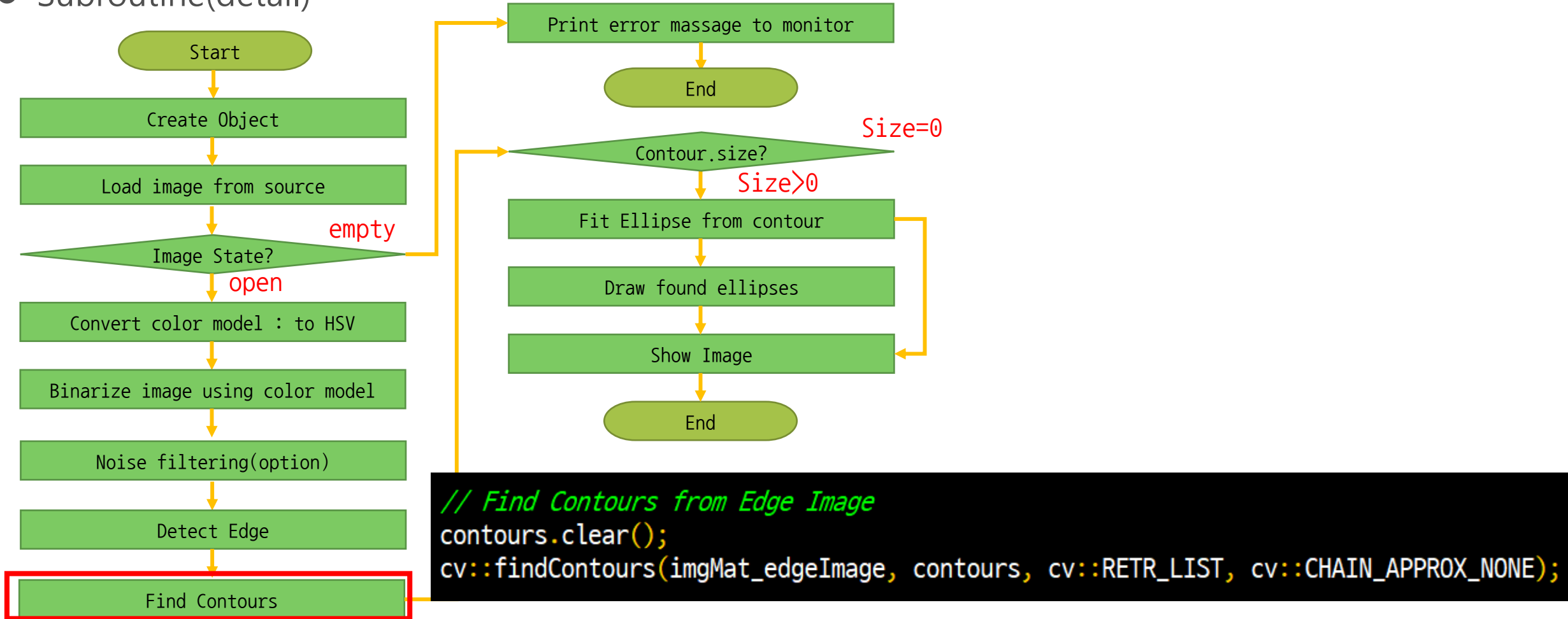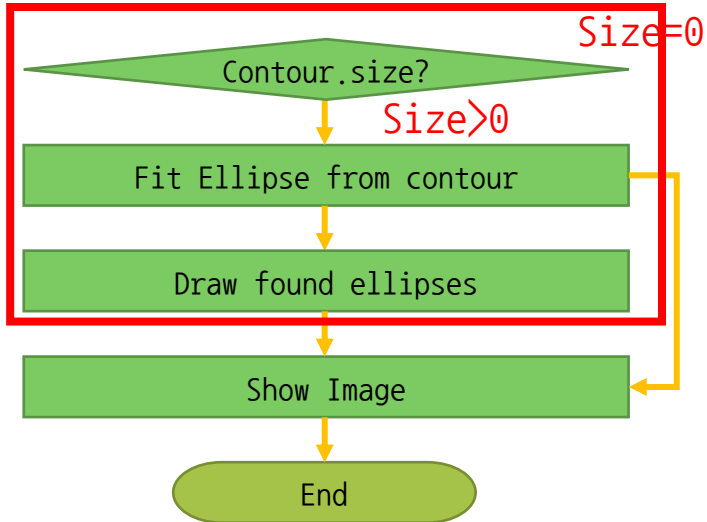
● Subroutine

● Comparison between "circle fitting" and "ellipse fitting"

● Subroutine(detail)


```
// Find Contours from Edge Image
contours.clear();
cv::findContours(imgMat_edgeImage, contours, cv::RETR_LIST, cv::CHAIN_APPROX_NONE);
```

● Subroutine(detail)


```
// Fit Ellipse from Contours
if ( contours.size() > 0 ) {
    for ( int iter = 0; iter < contours.size(); iter++ ) {
        if ( contours.at(iter).size() < 6 ) {
            continue;
        }
        cv::Mat(contours.at(iter)).convertTo(ellipseLine, CV_32F);
        ellipse = cv::fitEllipse(ellipseLine);
        cv::ellipse(imgMat_source, ellipse, cv::Scalar(0, 0, 255), 2);
    }
} else {
    cv::putText(imgMat_source,
                strMsg_noDetection,
                cv::Point(15, 15),
                1,
                1.5,
                cv::Scalar(0, 0, 255),
                1);
}
```

● Subroutine(detail)