a) Before

| 0 | 0 | 0 | 0 | 0 | 255 | 255 |
|---|-----|-----|-----|-----|-----|-----|
| 0 | 0 | 0 | 0 | 255 | 255 | 255 |
| 0 | 0 | 0 | 255 | 255 | 255 | 0 |
| 0 | 0 | 255 | 255 | 255 | 0 | 0 |
| 0 | 255 | 255 | 255 | 0 | 0 | 0 |
| 0 | 255 | 255 | 255 | 0 | 0 | 0 |
| 0 | 0 | 255 | 255 | 255 | 0 | 0 |
| 0 | 0 | 0 | 255 | 255 | 255 | 0 |
| 0 | 0 | 0 | 0 | 255 | 255 | 255 |
| 0 | 0 | 0 | 0 | 0 | 255 | 255 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

b) After dilation

| | | | | | | 255 |
|-----|-----|-----|-----|-----|-----|-----|
| 0 | 0 | 0 | 255 | 255 | 255 | 255 |
| | | | | | | 255 |
| 0 | 255 | 255 | 255 | 255 | 255 | 0 |
| 255 | 255 | 255 | 255 | 255 | 0 | 0 |
| 255 | 255 | 255 | 255 | 255 | 0 | 0 |
| 0 | 255 | 255 | 255 | 255 | 255 | 0 |
| 0 | 0 | 255 | 255 | 255 | 255 | 255 |
| 0 | 0 | 0 | 255 | 255 | 255 | 255 |
| 0 | 0 | 0 | 0 | 255 | 255 | 255 |
| 0 | 0 | 0 | 0 | 0 | 255 | 255 |

c) After erosion

| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|-----|-----|-----|-----|---|
| 0 | 0 | 0 | 0 | 0 | 255 | 0 |
| 0 | 0 | 0 | 0 | 255 | 0 | 0 |
| 0 | 0 | 0 | 255 | 0 | 0 | 0 |
| 0 | 0 | 255 | 0 | 0 | 0 | 0 |
| 0 | 0 | 255 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 255 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 255 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 255 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |