Solution: The border table is built as follows:

1.

| | | | | CT | $^{\circ}\mathrm{TG}$ | CT | $\Gamma G T$ | CT | GG | | | | |
|------|---|---|---|----|-----------------------|---------------------|--------------|----|----|---|----|----|----|
| j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| B(j) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

No border found.

2.

| | | | | C1 | ΤG | CT | $\Gamma G T$ | CT | GG | | | | |
|------|---|---|---|----|----|---------------|--------------|----|----|---|----|----|----|
| j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| B(j) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

No border found.

3.

| | | | | | CT | $^{\prime}\mathrm{TG}$ | CT | $\Gamma \mathrm{GT}$ | CT | GG | | | | |
|---|------|---|---|---|----|------------------------|---------------------|----------------------|----|----|---|----|----|----|
| | j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ĺ | B(j) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

No border found.

4.

| | | | | CT | $^{\rm TG}$ | CTI | Γ GT | CT | $\overline{\mathrm{GG}}$ | | | | |
|------|---|---|---|----|-------------|-----|-------------|----|--------------------------|---|----|----|----|
| j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| B(j) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

No border found.

5.

| | | | | CT | TG | СТТ | GT | CT | GG | | | | |
|------|---|---|---|----|----|-----|----|----|----|---|----|----|----|
| j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| B(i) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

No border found.

6.

| | | | | | $\mathbf{C}\mathbf{T}$ | TG | CT1 | ΓGT | CT | GG | | | | |
|---|------|---|---|---|------------------------|----|-----|-------------|----|----|---|----|----|----|
| | j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Ì | B(j) | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

A border of length ${\bf 1}$ is found.

7.

| | | | | \mathbf{CT} | 'TG | CT | $\Gamma G T$ | CT | GG | | | | |
|------|---|---|---|---------------|-----|----|--------------|----|----|---|----|----|----|
| j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| B(j) | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

A border of length $\mathbf 2$ is found.

8.

| | | | | CT | $\mathbf{T}G$ | CT | ГGТ | CT | GG | | | | |
|------|---|---|---|----|---------------|----|-----|----|----|---|----|----|----|
| j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| B(j) | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |

A border of length 3 is found.

9.

| | | | | | CT | \mathbf{TG} | \mathbf{CT} | ΓG | ГСТ | $^{\prime}\mathrm{GG}$ | | | | |
|---|------|---|---|---|----|---------------|---------------|------------|-----|------------------------|---|----|----|----|
| | j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ſ | B(j) | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 0 | 0 | 0 | 0 | 0 |

A border of length 4 is found.

10.

| | | | | CI | $^{\circ}$ TG | CT | $\Gamma \mathrm{GT}$ | CT | GG | | | | |
|------|---|---|---|----|---------------|----|----------------------|----|----|---|----|----|----|
| j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| B(j) | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 0 | 0 | 0 | 0 | 0 |

No border found.

11.

| | | | | \mathbf{C} | TG | CT | ΓGT | CT | GG | | | | |
|------|---|---|---|--------------|----|----|-------------|----|----|---|----|----|----|
| j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| B(j) | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 0 | 1 | 0 | 0 | 0 |

A border of length ${\bf 1}$ is found.

12.

| | | | | $\mathbf{C}\mathbf{I}$ | TG | CTI | ΓGT | \mathbf{CT} | GG | | | | |
|--------------------------------|---|---|---|------------------------|----|-----|-------------|---------------|----|---|---|---|---|
| j 0 1 2 3 4 5 6 7 8 9 10 11 12 | | | | | | | | | | | | | |
| B(j) | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 0 | 1 | 2 | 0 | 0 |

A border of length ${\bf 2}$ is found.

13.

| CTTGCTTGTCTGG | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|----|----|----|
| j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| B(j) | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 0 | 1 | 2 | 0 | 0 |

No border found.