CRACK THE CODE

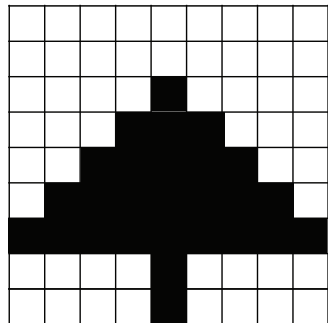## A Binary Holiday Activity

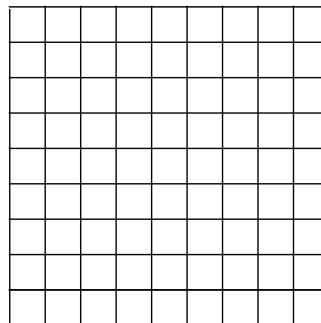**PART 1** — Convert the bitmaps into binary using a "0" to represent a white pixel and a "1" to represent a black pixel.
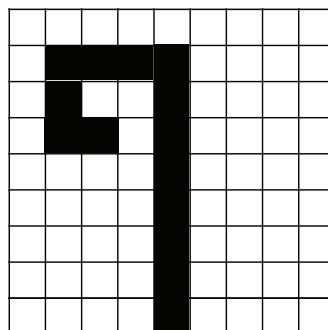
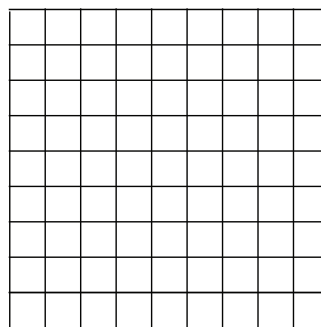**PART 2** — Convert the binary into bitmaps. Use white to represent 0 and black to represent 1.

Binary

_____
_____
_____
_____
_____
_____
_____
_____
_____

Binary

```
000010000
010101010
001010100
010000010
101010101
010000010
001010100
010101010
000010000
```

Binary

_____
_____
_____
_____
_____
_____
_____
_____
_____

Binary

```
000010000
000101000
001000100
001111100
010000010
100101001
010010010
001000100
000111000
```

Binary

_____
_____
_____
_____
_____
_____
_____
_____
_____
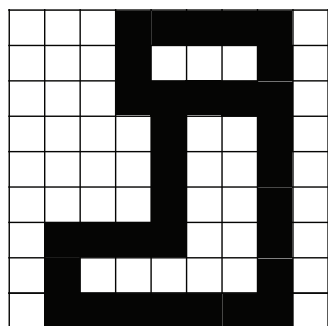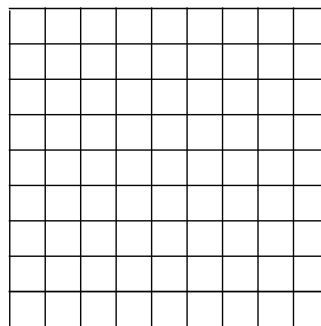
Binary

```
000010000
010111010
001010100
010010010
111111111
010010010
010010010
001010100
010111010
```

CRACK THE CODE

A Binary Holiday Activity

PART 1 — Convert the bitmaps into binary using a "0" to represent a white pixel and a "1" to represent a black pixel.

PART 2 — Convert the binary into bitmaps. Use white to represent 0 and black to represent 1.

Binary (Part 1, top)
```
000000000
000000000
000010000
000111000
001111100
011111110
111111111
000010000
000010000
```

Binary (Part 1, middle)
```
000000000
011110000
010010000
011010000
000010000
000010000
000010000
000010000
000010000
```

Binary (Part 1, bottom)
```
000111110
000100010
000111110
000010010
000010010
000010010
011110010
010000010
011111110
```

Binary (Part 2, top)
```
000010000
010101010
001010100
010000010
101010101
010000010
001010100
010101010
000010000
```

Binary (Part 2, middle)
```
000010000
000101000
001000100
001111100
010000010
100101001
010010010
001000100
000111000
```

Binary (Part 2, bottom)
```
000111000
011111110
010010010
010010010
011111110
010010010
010010010
010010010
011111110
```
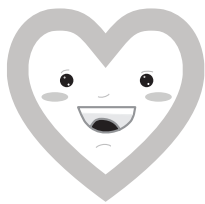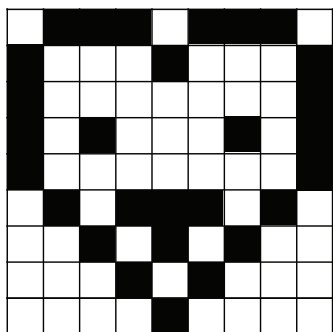
CRACK THE CODE
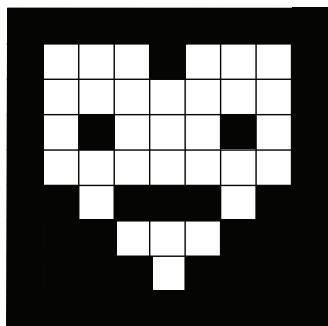
A Binary Holidays Activity

PART 1 — Convert the bitmaps into binary using a "0" to represent a white pixel and a "1" to represent a black pixel.
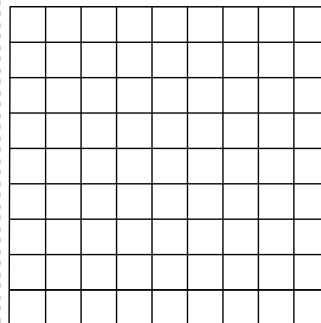
PART 2 — Convert the binary into bitmaps. Use white to represent 0 and black to represent 1.

Binary

_____

Binary

011101110
100010001
100000001
100000001
100000001
010000010
001000100
000101000
000010000

Binary

_____

Binary

111111111
10001000
101000101
100000001
101000101
110111011
111000111
111101111
111111111

Binary

_____

Binary

111111111
100010001
100000001
100000001
100000001
110000011
111000111
111000111
111111111

CRACK THE CODE

A Binary Holidays Activity

PART 1 — Convert the bitmaps into binary using a "0" to represent a white pixel and a "1" to represent a black pixel.
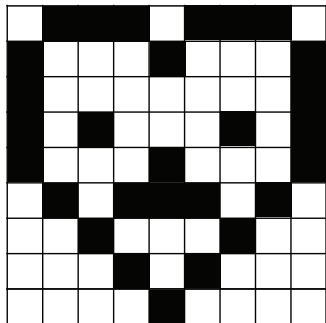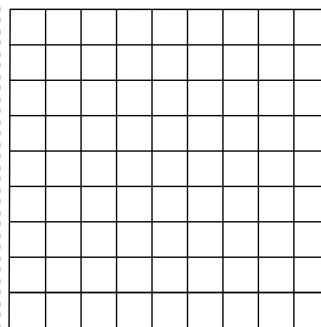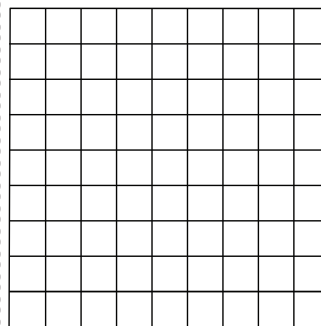
PART 2 — Convert the binary into bitmaps. Use white to represent 0 and black to represent 1.

Binary

```
011101110
100010001
100000001
101000101
100010001
010111010
001000100
000101000
000010000
```
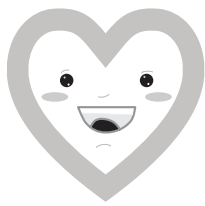
Binary

```
011101110
100010001
100000001
101000101
100000001
010000010
001000100
000101000
000010000
```

Binary

```
011101110
100010001
100000001
101000101
100000001
010111010
001010100
000101000
000010000
```

Binary

```
111111111
10001000
101000101
100000001
101000101
110111011
111000111
111101111
111111111
```
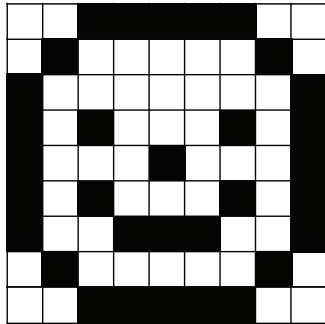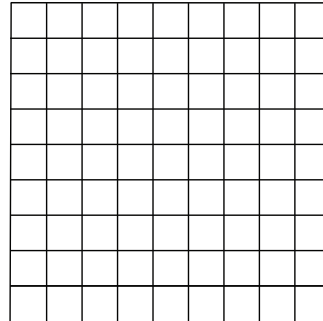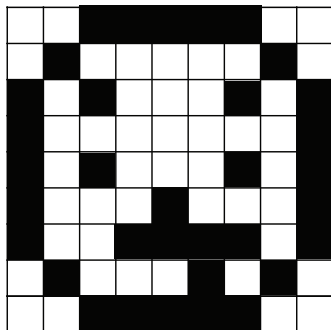
Binary

```
111111111
100010001
100000001
101000101
100000001
110111011
111000111
111000111
111111111
```

Binary

```
111111111
100010001
100000001
100000001
100000001
110000011
111000111
111000111
111111111
```

CRACK THE CODE

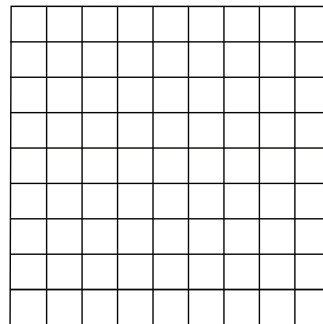## A Binary Emoji's Activity

Binary

Binary

011111110
100000001
100000001
101000100
100010001
100000001
101111111
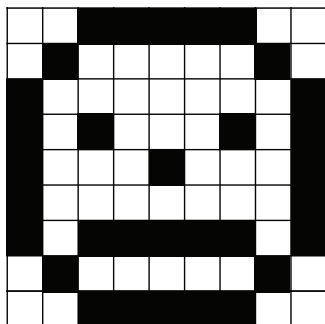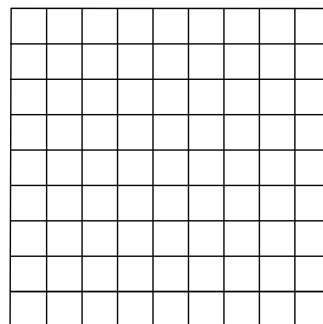100000001
011111110

Binary

Binary

011111110
100000001
100000001
101000100
100010001
100000001
101111101
110111011
011111110

Binary

Binary

011111110
100000001
101000101
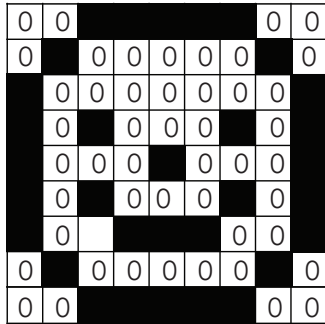100010001
100000001
101111101
101000101
110000011
011111110

CRACK THE CODE
A Binary Emoji's Activity

Convert the bitmaps into binary using a "0" to represent a white pixel and a "1" to represent a black pixel.

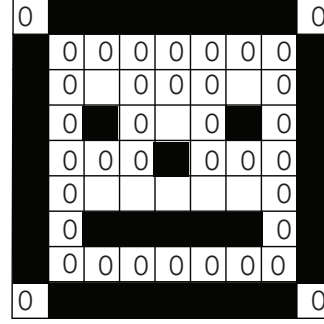Convert the binary into bitmaps. Use white to represent 0 and black to represent 1.

Binary
001111100
010000010
100000001
101000101
100010001
101000101
100111001
010000010
001111100

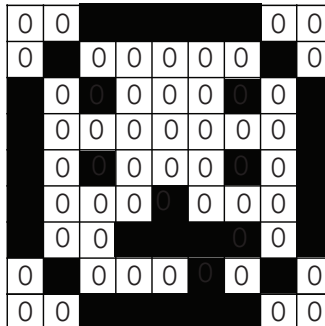### Binary
011111110
100000001
100000001
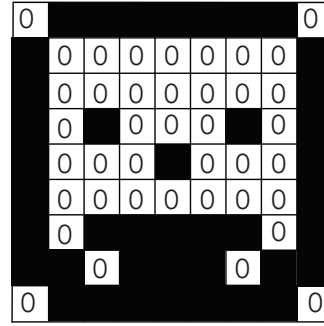101000100
100010001
100000001
101111111
100000001
011111110

Binary
001111100
010000010
101000101
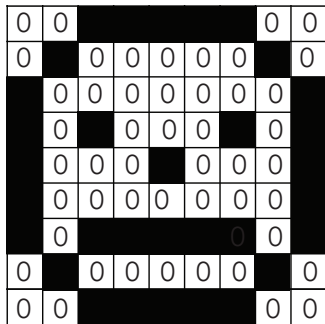100000001
101000101
100010001
100111101
010001010
001111100

Binary
011111110
100000001
100000001
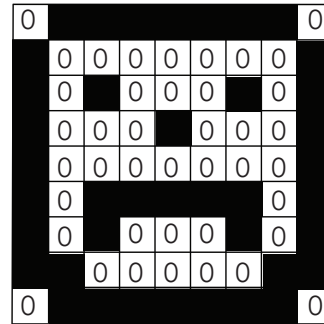101000100
100010001
100000001
101111101
110111011
011111110

Binary
001111100
010000010
100000001
101000101
100010001
100000001
101111101
010000010
001111100

Binary
011111110
100000001
101000101
100010001
100000001
101111101
101000101
110000011
011111110