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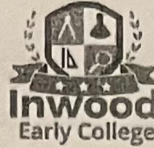
AP Computer Science Principles 1

Pixelated Pic Project

Graphic Organizer

Pixel Color Description: **Dark purple.**

RGB Values: **160 , 141 , 176**

Red Value: 160

$160 \div 2 = 80$ R0
$80 \div 2 = 40$ R0
$40 \div 2 = 20$ R0
$20 \div 2 = 10$ R0
$10 \div 2 = 5$ R0
$5 \div 2 = 2$ R1
$2 \div 2 = 1$ R0
$1 \div 2 = 0$ R1

Convert to Binary

Red Value in Binary:

1	0	1	0	0	0	0	0

Green Value: 141

$141 \div 2 = 70$ R1
$70 \div 2 = 35$ R0
$35 \div 2 = 17$ R1
$17 \div 2 = 8$ R1
$8 \div 2 = 4$ R0
$4 \div 2 = 2$ R0
$2 \div 2 = 0$ R0
$1 \div 2 = 0$ R1

Convert to Binary

Green Value in Binary:

1	0	0	0	1	1	0	1

Blue Value: 176

$176 \div 2 = 88$ R0
$88 \div 2 = 44$ R0
$44 \div 2 = 22$ R0
$22 \div 2 = 11$ R0
$11 \div 2 = 5$ R1
$5 \div 2 = 2$ R1
$2 \div 2 = 1$ R0
$1 \div 2 = 0$ R1

Convert to Binary

Blue Value in Binary:

1	0	1	1	0	0	0	0

Pixel color bitstring:

1	0	1	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0	1	1	0	0	0	0