

# QuecPython LCD 用户指导

# LTE Standard 模块系列

版本: 1.0.0

日期: 2021-01-08

状态: 临时文件



上海移远通信技术股份有限公司始终以为客户提供最及时、最全面的服务为宗旨。如需任何帮助,请随时联系我司上海总部,联系方式如下:

上海移远通信技术股份有限公司

上海市闵行区田林路 1016 号科技绿洲 3 期(B区)5号楼邮编:200233

电话: +86 21 51086236 邮箱: info@quectel.com

或联系我司当地办事处,详情请登录: http://www.guectel.com/cn/support/sales.htm。

如需技术支持或反馈我司技术文档中的问题,可随时登陆如下网址:

http://www.quectel.com/cn/support/technical.htm 或发送邮件至: support@quectel.com。

### 前言

上海移远通信技术股份有限公司提供该文档内容用以支持其客户的产品设计。客户须按照文档中提供的规范、参数来设计其产品。因未能遵守有关操作或设计规范而造成的损害,上海移远通信技术股份有限公司不承担任何责任。在未声明前,上海移远通信技术股份有限公司有权对该文档进行更新。

### 免责声明

上海移远通信技术股份有限公司尽力确保开发中功能的完整性、准确性、及时性或效用,但不排除上述功能错误或遗漏的可能。除非其他有效协议另有规定,否则上海移远通信技术股份有限公司对开发中功能的使用不做任何暗示或明示的保证。在适用法律允许的最大范围内,上海移远通信技术股份有限公司不对任何因使用开发中功能而遭受的损失或损害承担责任,无论此类损失或损害是否可以预见。

## 保密义务

除非上海移远通信技术股份有限公司特别授权,否则我司所提供文档和信息的接收方须对接收的文档和信息保密,不得将其用于除本项目的实施与开展以外的任何其他目的。未经上海移远通信技术股份有限公司书面同意,不得获取、使用或向第三方泄露我司所提供的文档和信息。对于任何违反保密义务、未经授权使用或以其他非法形式恶意使用所述文档和信息的违法侵权行为,上海移远通信技术股份有限公司有权追究法律责任。

# 版权申明

本文档版权属于上海移远通信技术股份有限公司,任何人未经我司允许而复制转载该文档将承担法律责任。

版权所有 ©上海移远通信技术股份有限公司 2021, 保留一切权利。

Copyright © Quectel Wireless Solutions Co., Ltd. 2021.



# 文档历史

# 修订记录

版本	日期	作者	变更表述
-	2021-01-08	Felix YE	文档创建
1.0.0	2021-01-08	Felix YE	临时版本



# 目录

文档	纺史			2
目录	ţ			3
表格	索引			4
1	引言			5
2	LCD	相关接口	¬	6
	2.1.	创建 L	.CD 对象	6
	2.2.	lcd.lcd	1_init	6
	2.3.	lcd.lcd	 I_clear	7
	2.4.	lcd.lcd	d_write	8
	2.5.	lcd.lcd	l_brightness	8
	2.6.	lcd.lcd	l_display_on	9
	2.7.	lcd.lcd	l_display_off	9
	2.8.	lcd.lcd	d_write_cmd	10
	2.9.	lcd.lcd	d_write_data	10
3	LCD	配置流和	至	12
	3.1.	LCD 何	更件接线	12
	3.2.	编写屏	<sup></sup>	12
	3.3.	执行初	7始化接口	14
	3	3.3.1.	创建 LCD 对象	14
	3	3.3.2.	打开屏显	15
	3	3.3.3.	关闭屏显	15
	3	3.3.4.	编写写屏时区域值	15
	3	3.3.5.	初始化配置	15
	3	3.3.6.	清屏	16
	3	3.3.7.	区域写屏	16
4	LCD	执行示例	列	18
	4.1.	LCD 🎚	<b></b>	18
	4.2.	LCD 🥖	<b></b>	22
5	附录	A 术语约	宿写	27



# 表格索引

表 1:	引脚对应表	12
表 2:	术语缩写	27



# 1 引言

本文档基于 QuecPython 介绍如何通过 LCD 模块实现 LCD 显示功能,包括接口、配置流程及示例。 本文档仅支持 SPI LCD。

本文档适用于以下模块:

- EC100Y-CN
- EC600S-CN



# 2 LCD 相关接口

## 2.1. 创建 LCD 对象

首先,导入 machine 模块下的 LCD,然后创建 LCD 对象。有关示例代码,请参考以下代码清单:

from machine import LCD lcd = LCD()

#### 2.2. lcd.lcd\_init

该方法用于初始化 LCD。

#### ● 函数原型

lcd.lcd\_init(lcd\_init\_data, lcd\_width, lcd\_hight, lcd\_clk, data\_line, line\_num, lcd\_type, lcd\_invalid, lcd\_display\_on, lcd\_display\_off, lcd\_set\_brightness)

#### 参数

lcd\_init\_data:

传入 LCD 的配置命令

Icd width:

LCD 屏幕的宽度。宽度不超过 500。

lcd\_hight:

LCD 屏幕的高度。高度不超过 500。

Icd\_clk:

LCD SPI 时钟。SPI 时钟为 6.5K/13K/26K/52K。

data\_line:

数据线数。参数值为1和2。

line\_num:



线的数量。参数值为3和4。

#### lcd\_type:

屏幕类型。0: rgb; 1: fstn

#### lcd\_invalid:

LCD 写屏时 xy 的设置

#### lcd\_display\_on:

LCD 屏亮

#### lcd\_display\_off:

LCD 屏灭

#### lcd\_set\_brightness:

LCD 设置亮度值。设置为 none 表示由 LCD\_BL\_K 控制亮度(有些屏幕是由寄存器控制屏幕亮度,有些是通过 LCD\_BL\_K 控制屏幕亮度)

#### 返回值

- 0 成功
- -1 已经初始化
- -2 屏初始化参数错误(为空或过大(大于1000像素点))
- -3 初始化参数解析错误
- -4 屏幕缓存申请失败
- -5 配置参数错误

# 2.3. lcd.lcd\_clear

该方法用于清除屏幕。

#### ● 函数原型

#### lcd.lcd\_clear(color)

#### 参数

#### color:

需要刷屏的颜色值

#### ● 返回值

0 成功



#### -1 屏幕未初始化

#### 2.4. Icd.Icd write

该方法用于区域写屏。

#### ● 函数原型

lcd.lcd\_write(color\_buffer,start\_x,start\_y,end\_x,end\_y)

#### 参数

#### Color\_buffer:

屏幕的颜色值缓存。

#### start x:

起始x坐标

#### start\_y:

起始y坐标

#### end\_x:

结束x坐标

#### end y:

结束y坐标

#### ● 返回值

- 0 成功
- -1 屏幕未初始化
- -2 宽度和高度设置错误
- -3 数据缓存为空

# 2.5. lcd.lcd\_brightness

该方法用于设置屏幕亮度。

### ● 函数原型



#### lcd. lcd\_brightness(level)

#### 参数

#### level:

亮度等级。此处会调用 *lcd.lcd\_init()*中的 *lcd\_set\_brightness* 参数。若该参数为 None,亮度调节则由背光亮度调节引脚来控制。

- 返回值
- 0 成功
- -1 屏幕未初始化

## 2.6. lcd.lcd\_display\_on

该方法用于设置亮屏。调用此接口后调用 lcd.lcd\_init()中的 lcd\_display\_on 回调。

● 函数原型

lcd.lcd display on ()

#### ● 参数

无

- 返回值
- 0 成功
- -1 屏幕未初始化

# 2.7. lcd.lcd\_display\_off

该方法用于灭屏设置。调用此接口后调用 lcd.lcd\_init()中的 lcd\_display\_off 回调。

#### ● 函数原型

Icd.Icd display off ()



#### 参数

无

- 返回值
- 0 成功
- -1 屏幕未初始化

### 2.8. lcd.lcd\_write\_cmd

该方法用于写入命令。

● 函数原型

lcd.lcd\_write\_cmd (cmd\_value, cmd\_value\_len)

#### ● 参数

cmd\_value:

命令值

cmd\_value\_len:

命令值长度

- 返回值
- 0 成功

其他值 失败

### 2.9. lcd.lcd\_write\_data

该方法用于写入数据。

● 函数原型

lcd.lcd write data (data value, data value len)

参数



data\_value:

数据值

data\_value\_len:

数据值长度

● 返回值

0成功其他值失败



# 3 LCD 配置流程

### 3.1. LCD 硬件接线

如下表所示,LCD 引脚对应模块使用的LCD 模块引脚,如下表所示:

#### 表 1: 引脚对应表

LCD 引脚	LCD 模块引脚
LCD_SPI_CLK	gpio[20]
LCD_SPI_DOUT	gpio[24]
LCD_SPI_CS	gpio[22]
LCD_SPI_RS	gpio[21]
LCD_SPI_RST	gpio[26]
LCD_BL_K	I

# 3.2. 编写屏幕初始化参数

在交互式命令行窗口中键入以下内容,准备 LCD 屏幕初始化参数,参数格式为:类型+长度+参数值:

- 类型: 0表示命令; 1表示数据; 2表示延时
- 长度: 若类型为 0,则长度表示命令后的数据数量; 若类型为 1,则长度表示数据的长度
- 参数值:对应值

以下以 ili9225 为例:

```
Ili9225_init = (
0,1,0x02, #命令,后接一个 data, cmd 值为 0x02
1,2,0x01,0x00, #数据,数据长度为 2, data 值为 0x0100
0,1,0x01,
```



1,2,0x01,0x1C, 0,1,0x03, 1,2,0x10,0x30, 0,1,0x08, 1,2,0x08,0x08, 0,1,0x0B, 1,2,0x11,0x00, 0,1,0x0C, 1,2,0x00,0x00, 0,1,0x0F, 1,2,0x14,0x01, 0,1,0x15, 1,2,0x00,0x00, 0,1,0x20, 1,2,0x00,0x00, 0,1,0x21, 1,2,0x00,0x00, 0,1,0x10, 1,2,0x08,0x00, 0,1,0x11, 1,2,0x1F,0x3F, 0,1,0x12, 1,2,0x01,0x21, 0,1,0x13, 1,2,0x00,0x0F, 0,1,0x14, 1,2,0x43,0x49, 0,1,0x30, 1,2,0x00,0x00, 0,1,0x31, 1,2,0x00,0xDB, 0,1,0x32, 1,2,0x00,0x00, 0,1,0x33, 1,2,0x00,0x00, 0,1,0x34,1,2,0x00,0xDB, 0,1,0x35, 1,2,0x00,0x00, 0,1,0x36, 1,2,0x00,0xAF, 0,1,0x37,

1,2,0x00,0x00, 0,1,0x38,



```
1,2,0x00,0xDB,
0,1,0x39,
1,2,0x00,0x00,
0,1,0x50,
1,2,0x00,0x01,
0,1,0x51,
1,2,0x20,0x0B,
0,1,0x52,
1,2,0x00,0x00,
0,1,0x53,
1,2,0x04,0x04,
0,1,0x54,
1,2,0x0C,0x0C,
0,1,0x55,
1,2,0x00,0x0C,
0,1,0x56,
1,2,0x01,0x01,
0,1,0x57,
1,2,0x04,0x00,
0,1,0x58,
1,2,0x11,0x08,
0,1,0x59,
1,2,0x05,0x0C,
0,1,0x07,
1,2,0x10,0x17,
0,1,0x22,
Ili9225_init_data = bytearray(Ili9225_init)
```

# 3.3. 执行初始化接口

本节以 ili9225 为例, 演示如何驱动屏幕。

#### 3.3.1. 创建 LCD 对象

在交互式命令行窗口中键入以下命令, 创建 LCD 对象。

```
from machine import LCD lcd = LCD()
```



#### 3.3.2. 打开屏显

在交互式命令行窗口中键入以下命令, 打开屏显:

```
def display_on(para):
print("display on")
lcd.lcd_write_cmd(0x07, 1)
lcd.lcd_write_data(0x1017, 2)
```

#### 3.3.3. 关闭屏显

在交互式命令行窗口中键入以下命令,关闭屏显:

```
def display_off(para):
print("display off")
lcd.lcd_write_cmd(0x07, 1)
lcd.lcd_write_data(0x1004, 2)
```

#### 3.3.4. 编写写屏时区域值

不同的 LCD 屏有不同的设置区域方式,故放置 python 层实现。在底层实现 *lcd\_write* 时,会调用该函数在交互式命令行窗口中键入以下命令,实现 *lcd\_invalid*:

```
def lcd_invalid(para):
print("invalid:",para[0], para[1], para[2], para[3])
lcd.lcd write cmd(0x36, 1)
lcd.lcd_write_data(para[2], 2)
lcd.lcd_write_cmd(0x37, 1)
lcd.lcd_write_data(para[0], 2)
lcd.lcd_write_cmd(0x38, 1)
lcd.lcd_write_data(para[3], 2)
lcd.lcd_write_cmd(0x39, 1)
lcd.lcd_write_data(para[1], 2)
lcd.lcd_write_cmd(0x20, 1)
lcd.lcd_write_data(para[0], 2)
lcd.lcd_write_cmd(0x21, 1)
lcd.lcd_write_data(para[1], 2)
lcd.lcd_write_cmd(0x22, 1)
lcd.lcd_write_cmd(0xff, 1) #此 0xff 尤为重要,此值时配置区域完成的标志
```

#### 3.3.5. 初始化配置

在交互式命令行窗口中键入以下命令,实现 LCD 配置:



lcd.lcd\_init(Ili9225\_init\_data,176,220,13000,1,4,0,lcd\_invalid,display\_on,display\_off,None))

Ili9225\_init\_data: 2.1 配置的初始化参数

176: lcd 宽度 220: lcd 高度 13000: spi clk 1: 1 根数据线

4: 4根线

0: type, 0表示 rgb

lcd\_invalid: 区域写屏,设置范围

display\_on: 亮屏 display\_off: 息屏

None: 表示 LCD 亮度由 IO 口控制

#### 3.3.6. 清屏

在交互式命令行窗口中键入以下命令,实现清屏:

lcd.lcd\_clear(0x001f)

#### 3.3.7. 区域写屏

在交互式命令行窗口中键入以下命令,实现区域写屏:

 $test_buf = ($ 

0x00,0x1f,0x00

0x00,0x1f,0x00

0x00,0x1f,0x00

0x00,0x1f,0x00

0x00,0x1f,0x00

0x00,0x1f,0x00

0x00,0x1f,0x00

0x00,0x1f,0x00

0x00,0x1f,0x00



0x00,0x1f,0x00

)

test\_buf1 = bytearray(test\_buf)

Icd.Icd write(test buf1,10,10,20,20)

#### 备注

因设计原因,该示例目标显示为 0x001f(蓝色),当前为 0x1f00。



# 4 LCD 执行示例

本章节以 ili9225 为例, 汇总 LCD 流程脚本命令以及执行结果。

## 4.1. LCD 流程脚本命令

```
test=(
0,1,0x02,
1,2,0x01,0x00,
0,1,0x01,
1,2,0x01,0x1C,
0,1,0x03,
1,2,0x10,0x30,
0,1,0x08,
1,2,0x08,0x08,
0,1,0x0B,
1,2,0x11,0x00,
0,1,0x0C,
1,2,0x00,0x00,
0,1,0x0F,
1,2,0x14,0x01,
0,1,0x15,
1,2,0x00,0x00,
0,1,0x20,
1,2,0x00,0x00,
0,1,0x21,
1,2,0x00,0x00,
0,1,0x10,
1,2,0x08,0x00,
0,1,0x11,
1,2,0x1F,0x3F,
0,1,0x12,
1,2,0x01,0x21,
0,1,0x13,
1,2,0x00,0x0F,
0,1,0x14,
1,2,0x43,0x49,
```



```
0,1,0x30,
1,2,0x00,0x00,
0,1,0x31,
1,2,0x00,0xDB,
0,1,0x32,
1,2,0x00,0x00,
0,1,0x33,
1,2,0x00,0x00,
0,1,0x34,
1,2,0x00,0xDB,
0,1,0x35,
1,2,0x00,0x00,
0,1,0x36,
1,2,0x00,0xAF,
0,1,0x37,
1,2,0x00,0x00,
0,1,0x38,
1,2,0x00,0xDB,
0,1,0x39,
1,2,0x00,0x00,
0,1,0x50,
1,2,0x00,0x01,
0,1,0x51,
1,2,0x20,0x0B,
0,1,0x52,
1,2,0x00,0x00,
0,1,0x53,
1,2,0x04,0x04,
0,1,0x54,
1,2,0x0C,0x0C,
0,1,0x55,
1,2,0x00,0x0C,
0,1,0x56,
1,2,0x01,0x01,
0,1,0x57,
1,2,0x04,0x00,
0,1,0x58,
1,2,0x11,0x08,
0,1,0x59,
1,2,0x05,0x0C,
0,1,0x07,
1,2,0x10,0x17,
0,1,0x22,
```



```
from machine import LCD
Icd = LCD()
test1 = bytearray(test)
def display on(para):
print("display on")
lcd.lcd_write_cmd(0x07, 1)
lcd.lcd_write_data(0x1017, 2)
def display_off(para):
 print("display off")
lcd.lcd_write_cmd(0x07, 1)
lcd.lcd_write_data(0x1004, 2)
def display_light(para):
 print("display_light")
lcd.lcd_write_cmd(0x13, 1)
lcd.lcd_write_data(para, 2)
def lcd_invalid(para):
 print("invalid:",para[0], para[1], para[2], para[3])
lcd.lcd_write_cmd(0x36, 1)
lcd.lcd_write_data(para[2], 2)
lcd.lcd_write_cmd(0x37, 1)
lcd.lcd write data(para[0], 2)
lcd.lcd_write_cmd(0x38, 1)
lcd.lcd_write_data(para[3], 2)
lcd.lcd_write_cmd(0x39, 1)
lcd.lcd_write_data(para[1], 2)
lcd.lcd write cmd(0x20, 1)
lcd.lcd_write_data(para[0], 2)
lcd.lcd_write_cmd(0x21, 1)
lcd.lcd_write_data(para[1], 2)
lcd.lcd_write_cmd(0x22, 1)
lcd.lcd_write_cmd(0xff, 1)
lcd.lcd_init(test1, 176,220,13000,1,4,0,lcd_invalid,display_on,display_off,display_light)
 test_buf = (
0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
0x1f,
0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
0x1f,
```



```
0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
      0x1f.
0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
      0x1f,
   0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00
   0x1f,
   0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
   0x1f.
   0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00
   0x1f,
0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
   0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
      0x1f.
0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
0x1f,
   0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
      0x1f.
   0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
   0x1f,
   0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00.0x1f,0x00
      0x1f,
   0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
   0x1f.
   0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
   0x1f,
      0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
   0x1f.
0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
      0x1f,
0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
      0x1f,
   0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00
0x1f.
   test_buf1 = bytearray(test_buf)
   lcd.lcd_write(test_buf1,10,10,20,20)
lcd.lcd clear(0xf800) //红色
```



#### 4.2. LCD 流程脚本执行结果

LCD 流程脚本执行结果分别如图所示:

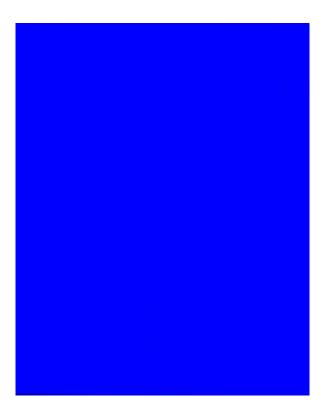
```
>>> from machine import LCD
>>> 1cd = LCD()
>>> test1 = bytearray(test)
>>> def display_on(para):
        print("display on")
         lcd.lcd_write_cmd(0x07, 1)
        lcd.lcd_write_data(0x1017, 2)
>>> def display_off(para):
        print("display off")
        lcd.lcd_write_cmd(0x07, 1)
        1cd.1cd write data(0x1004, 2)
>>> def lcd invalid(para):
        print("invalid:",para[0], para[1], para[2], para[3])
        lcd.lcd_write_cmd(0x36, 1)
        lcd.lcd_write_data(para[2], 2)
lcd.lcd_write_cmd(0x37, 1)
lcd.lcd_write_data(para[0], 2)
        lcd.lcd_write_cmd(0x38, 1)
        lcd.lcd_write_data(para[3], 2)
        lcd.lcd_write_cmd(0x39, 1)
lcd.lcd_write_data(para[1], 2)
       lcd.lcd write cmd(0x20, 1)
        lcd.lcd_write_data(para[0], 2)
        lcd.lcd_write_cmd(0x21, 1)
lcd.lcd_write_data(para[1], 2)
        lcd.lcd_write_cmd(0x22, 1)
        lcd.lcd_write_cmd(0xff, 1)
>>> lcd.lcd_init(test1, 176,220,13000,1,4,0,lcd_invalid,display_on,display_off,None)
>>> invalid: 0 0 175 219
```





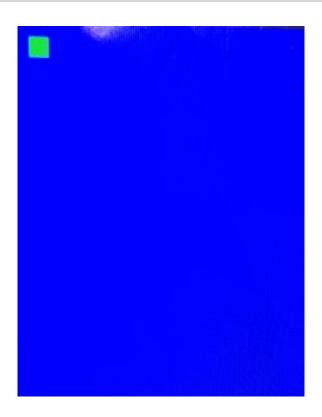
```
>>>
>>> lcd.lcd_clear(0x001f)
>>> invalid: 0 0 175 219
```





```
>>> test buf = (
                      0 \\ x \\ 0 \\ 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0 \\ 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0 \\ 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0 \\ 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0, 0 \\ 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0, 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0, 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0, 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0, 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0, 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0, 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0, 0 \\ 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0, 0 \\ 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0, 0 \\ 0, 0 \\ x \\ 1 \\ f, 0 \\ x \\ 0, 0 \\ 0, 0 \\ x \\ 
                         0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,
.. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,
 .. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x0
  .. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,
                        0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,
 .. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x0
.. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,
.. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f
  .. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,
                        0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,
.. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,
.. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x0
    .. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,
                        0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,
 .. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,
.. 0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x00,0x1f,0x0
                      test_bufl = bytearray(test_buf)
>>> lcd.lcd_write(test_buf1,10,10,20,20)
 >> invalid: 10 10 20 20
```







```
>>> test=(
... 0,1,0x02,
... 1,2,0x01,0x00,
... 0,1,0x01,
... 1,2,0x01,0x1C,
... 0,1,0x03,
... 1,2,0x10,0x30,
... 0,1,0x08,
... 1,2,0x08,0x08,
... 0,1,0x0B,
... 1,2,0x11,0x00,
... 0,1,0x0C,
... 1,2,0x00,0x00,
... 0,1,0x0F,
... 1,2,0x14,0x01,
... 0,1,0x15,
... 1,2,0x00,0x00,
... 0,1,0x20,
... 1,2,0x00,0x00,
... 0,1,0x21,
... 1,2,0x00,0x00,
... 0,1,0x10,
... 1,2,0x08,0x00,
... 0,1,0x11,
... 1,2,0x1F,0x3F,
... 0,1,0x12,
... 1,2,0x01,0x21,
... 0,1,0x13,
... 1,2,0x00,0x0F,
... 0,1,0x14,
... 1,2,0x43,0x49,
... 0,1,0x30,
... 1,2,0x00,0x00,
... 0,1,0x31,
... 1,2,0x00,0xDB,
... 0,1,0x32,
... 1,2,0x00,0x00,
... 0,1,0x33,
... 1,2,0x00,0x00,
... 0,1,0x34,
... 1,2,0x00,0xDB,
... 0,1,0x35,
... 1,2,0x00,0x00,
... 0,1,0x36,
... 1,2,0x00,0xAF,
... 0,1,0x37,
... 1,2,0x00,0x00,
... 0,1,0x38,
... 1,2,0x00,0xDB,
... 0,1,0x39,
... 1,2,0x00,0x00,
... 0,1,0x50,
... 1,2,0x00,0x01,
... 0,1,0x51,
... 1,2,0x20,0x0B,
... 0,1,0x52,
... 1,2,0x00,0x00,
... 0,1,0x53,
... 1,2,0x04,0x04,
.. 0,1,0x54,
```



# 5 附录 A 术语缩写

#### 表 2: 术语缩写

缩写	英文全称	中文全称
LCD	Liquid Crystal Display	液晶显示器
SPI	Serial Peripheral Interface	串行外设接口