// https://lxzzzzzxl.github.io/2019/01/23/4x4%E7%9F%A9%E9%98%B5%E9%94%AE%E7%9B%98%E7%9A%84%E6%89%AB%E6%8F%8F%E5%8E%9F%E7%90%86%EF%BC%88%E9%99%84STM32%E4%BB%A3%E7%A0%81%EF%BC%89/

uint32\_t num = 16;

uint32\_t a = 0;

void keypad\_config(void)

{

rcu\_periph\_clock\_enable(GPIOA);

gpio\_init(GPIOA, GPIO\_MODE\_IPU, GPIO\_OSPEED\_50MHZ, GPIO\_PIN\_0|GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3);

gpio\_init(GPIOA, GPIO\_MODE\_OUT\_PP, GPIO\_OSPEED\_50MHZ, GPIO\_PIN\_4|GPIO\_PIN\_5|GPIO\_PIN\_6|GPIO\_PIN\_7);

}

void scan\_config(void)

{

int keycode, scancode=0x10, i=0;

uint32\_t port\_state\_a;

for(i=0; i<4; i++){

gpio\_port\_write(GPIOA, ~scancode);

port\_state\_a = gpio\_input\_port\_get (GPIOA);

if((port\_state\_a & 0x0f) != 0x0f){

keycode = port\_state\_a;

}

scancode <<= 1;

keycode &= 0x0f;

switch(keycode){

case 0x0e:

num = 4 \* i + 1;

break;

case 0x0d:

num = 4 \* i + 2;

break;

case 0x0b:

num = 4 \* i + 3;

break;

case 0x07:

num = 4 \* i + 4;

break;

default:

keycode = 0xff;

break;

}

}

}

int main(void)

{

keypad\_config();

scan\_config();

while(1){

}

}