struct Bike1 {	Player1[0].x $+= 1$;	UART_OutChar(Player2[1].y);
uint32_t x; // x coordinate	h;}	UART_OutChar(0x00);//extra
uint32_t y; // y coordinate	if(v<0){	UART_OutChar(0x03);//ETX
const unsigned short *image; //	Player1[1].y -= 1;	return 0; }
ptr->image	v++;}	///////////////////////////////////////
char life; // 0=dead, 1=alive};	if(0 <v){< td=""><td>int P1direction = east;</td></v){<>	int P1direction = east;
typedef struct Bike1 P1;	Player1[1].y += 1;	int P2direction = west;
P1 Player1[4];	v;}	int arrH[4] = $\{0, 1, 0, -1\}$;
<pre>void Player1_Init(void){ int i;</pre>	P1pos[P1Index].x = Player1[0].x;	int arr $V[4] = \{1, 0, -1, 0\};$
for(i=0;i<4;i++){	P1pos[P1Index].y = Player1[1].y;	<pre>void Set_Flag(){</pre>
Player1[i].x = 0;	checkIndex = P1Index;	Arena_Flag = 1;
Player1[i]. $y = 70$;	while(checkIndex !=0){	}
Player1[i].image = &cycle1[80];	<pre>if((P1pos[P1Index].x == P2pos[checkIndex].x)&&(P1pos[P 1Index].y ==</pre>	int Arena_Map(int R1, int L1, int R2, int L2){
Player1[i].life = 1;		
P1direction = east;	P2pos[checkIndex].y)){	$if(R1 == 1 \&\& L1 == 0){$
boost1count = 3 ;	Player1[3].life = 0 ;}	$if(P1direction == 3){$
ST7735_DrawBitmap(Player1[0].x, Player1[1].y, cycle1, 40, 15); }	checkIndex;}	P1direction = 0;}
int MoveP1(int h, int v){	checkIndex = P1Index-1;	else{ P1direction++;}}
if(boost1>0){	if(checkIndex>0){	$if(R1 == 0 \&\& L1 == 1)$ {
h = h*2;	while(checkIndex !=0){	$if(P1direction == 0)$ {
v = v*2;	<pre>if((P1pos[P1Index].x == P1pos[checkIndex].x)&&(P1pos[P</pre>	P1direction = 3;}
boost1;}	1Index].y ==	else{
if((Player1[0].x)> 159){ //check x	P1pos[checkIndex].y)){	P1direction;}
position	Player1[3].life = 0;	h1 = arrH[P1direction];
Player1[3].life = 0 ;	checkIndex;}}	v1 = arrV[P1direction];
return 1;//error, do nothing}	P1Index++;	h2 = arrH[P2direction];
if((Player1[1].y)> 254){ //check y	if(Player1[1].y <128){	v2 = arrV[P2direction];
position Player1[3].life = 0;	ST7735_DrawBitmap(Player1[0].x, Player1[1].y, pixel1, 1, 1);}}	while((Player1[3].life) == 1 && (Player2[3].life)==
return 1; //error, do nothing}	UART_OutChar(0x02);//STX	1){
while(h!=0 v!=0){	UART_OutChar(0x0E);//current	$\underline{\text{while}(\text{Arena_Flag} == 0)\{\}}$
if(h<0){	screen UART_OutChar(Player1[0].x);//p1 data	Arena_Map(rightb1, leftb1,
Player1[0].x -= 1;		rightb2, leftb2);
h++;}	UART_OutChar(Player1[1].y);	MoveP2(h2, v2):
if(0 <h){< td=""><td>UART_OutChar(Player2[0].x);//p2</td><td>$\underline{\text{MoveP2(h2, v2);}}$ $\underline{\text{Arena_Flag} = 0;}$</td></h){<>	UART_OutChar(Player2[0].x);//p2	$\underline{\text{MoveP2(h2, v2);}}$ $\underline{\text{Arena_Flag} = 0;}$
	data	Aicha_Flag = U,