

```

/* ***** */
/** Descriptive File Name

@Company
    Santiago Valiante

@File Name
    Jeux.c

@Summary
    Brief description of the file.

@Description
    Describe the purpose of this file.
*/
/* ***** */

/* ***** */
/* ***** */
/* ***** */
/* Section: Included Files */
/* ***** */
/* ***** */

/* This section lists the other files that are included in this file.
*/

/* TODO: Include other files here if needed. */
#include "Jeux.h"
#include "app.h"
#include "Buzzer.h"
#include "MenuJeu.h"
#include "Mc32Delays.h"

/* ***** */
/* ***** */
/* Section: File Scope or Global Data */
/* ***** */
/* ***** */

/* A brief description of a section can be given directly below the section
    banner.
*/

#define WAITSTART 0

#define START 1
#define WAITSTOP 2

MENU_JEUX time;
int nbrTuch = 0;

/* ***** */
/** Descriptive Data Item Name

@Summary

```

```

Brief one-line summary of the data item.

@Description
    Full description, explaining the purpose and usage of data item.
    <p>
    Additional description in consecutive paragraphs separated by HTML
    paragraph breaks, as necessary.
    <p>
    Type "JavaDoc" in the "How Do I?" IDE toolbar for more information on tags.

@Remarks
    Any additional remarks
*/

/* ***** */
/* ***** */
// Section: Local Functions
/* ***** */
/* ***** */

/* A brief description of a section can be given directly below the section
   banner.
*/

/* ***** */

/**
@Function
    int ExampleLocalFunctionName ( int param1, int param2 )

@Summary
    Brief one-line description of the function.

@Description
    Full description, explaining the purpose and usage of the function.
    <p>
    Additional description in consecutive paragraphs separated by HTML
    paragraph breaks, as necessary.
    <p>
    Type "JavaDoc" in the "How Do I?" IDE toolbar for more information on tags.

@Precondition
    List and describe any required preconditions. If there are no preconditions,
    enter "None."

@Parameters
    @param param1 Describe the first parameter to the function.

    @param param2 Describe the second parameter to the function.

@Returns
    List (if feasible) and describe the return values of the function.
    <ul>
        <li>1    Indicates an error occurred

```

```

<!!> Indicates an error did not occur
</ul>

@Remarks
    Describe any special behavior not described above.
    <p>
    Any additional remarks.

@example
    @code
    if(ExampleFunctionName(1, 2) == 0)
    {
        return 3;
    }
*/
int ModeNormal()
{
    bool static flag = true;
    int static flagEnd = 0;
    int static state = 0;

    //Si première fois

    if (flag == true)
    {
        //Remet tous à 0
        SetTime(0,0);
        state = 0;
        flag = false;
        flagEnd = false;
    }

    switch (state)
    {
        case WAITSTART:
            //Attente que le joueur retourne au départ
            if (PIN_STARTStateGet() == 0)
            {
                //Aller dans l'etat START
                state = START;
            }
            break;

        case START:
            //Lance un compte a rebours
            CompteAREbours();

            //Si le joueur est plus sur le start
            if (PIN_STARTStateGet() == 1)
            {
                //Active le compteur en s
                DRV_TMR2_Start();

                //Aller dans l'etat WAITSTOP
                state = WAITSTOP;
            }
            break;
    }
}

```

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        case WAITSTOP:
            //Si le joueur est arrivé
            if (PIN_STOPStateGet() == 0)
            {
                //Stop le timer
                DRV_TMR2_Stop();
                //met la valeur de retour à 1
                flagEnd = 1;
                flag = true;
            }
            break;
    }

    //Met à jour l'affichage
    lcd_gotoxy(1,2);
    printf_lcd("Time: %2d:%2d", time.timemin ,time.timesec);

    //Détection de touch
    TouchDetectWire();

    //Met à jour l'affichage du nbr de touche
    lcd_gotoxy(1,3);
    printf_lcd("Tuch: %2d", nbrTuch);

    return flagEnd;
}

/* ***** */
/* ***** */
// Section: Interface Functions
/* ***** */
/* ***** */

/* A brief description of a section can be given directly below the section
   banner.
*/

// *****

/**
 * @Function
 * int ExampleInterfaceFunctionName ( int param1, int param2 )
 *
 * @Summary
 * Brief one-line description of the function.
 *
 * @Remarks
 * Refer to the example_file.h interface header for function usage details.
 */
void TouchDetectWire()
{
    bool static flagtuch = true; //incrément une fois si

```

```

//si on ne touche pas le start et le stop
if ((PIN_STARTStateGet == 1) && (PIN_STOPStateGet ==1)
{
    //On regard si on touch
    if (PIN_WIREStateGet()== 0)
    {
        //Active le buzzer
        DRV_TMR1_Start();
        //Incrémente
        if (flagtuch == true)
        {
            nbrTuch++;
            flagtuch = false;
        }
    }
    else
    {
        //Stop le buzzer
        DRV_TMR1_Stop();
        flagtuch = true;
    }
}
}

```

```
void CompteAREbours ()
```

```

{
    lcd_ClearLine(1);
    lcd_ClearLine(2);
    lcd_ClearLine(3);

    lcd_gotoxy(11,2);
    printf_lcd("3");

    delay_ms(1000);

    lcd_gotoxy(11,2);
    printf_lcd("2");

    delay_ms(1000);

    lcd_gotoxy(11,2);
    printf_lcd("1");

    delay_ms(1000);

    lcd_gotoxy(9,2);
    printf_lcd("Go!!!");

    lcd_ClearLine(2);
}

```

```
void SetTime (int timeSecValue,int timeMinValue)
```

```

{
    time.timemin = timeMinValue;
}

```

C:/microchip/harmony/v2_06/apps/MINF/PROJET/2224_BuzzerWireGame_Demo/firmware/src/Jeux.c

```
time.timesec = timeSecValue;
}

/* *****
End of File
*/
```