C_RT = Function in C > Reil 4 Call by Value & Call by Reforms (Inion big - function (all. vit x=5, 4=7) Aum (x, y) Note: Funtions 7 > Main Points when we we the function (all the principle) function; either define the function before main() function; when you elegine function after main() function. Call by Value:-Void fun (int, int); void main!) 1000 1050 Jun(x, y); printy ('x=1,d y=1,d", x, x); int x=5, Y=7; void fur (int x, int y) fun() X = 7;printy (" x = 1.d, y = 1.d", x, y);

pass the value to called function Denueback of all by Value is; Whenever we sall a function and priocess it the main function should change; but is main function there will be no change. * So to overcome this we use Call by sufvience. Call by reference: main!) void fun(int; int;); 1000 1050 int x = 5, y = 7;fun ($\{(x, \{(y))\};$ yound ((x = 1, d, y = 1, d), (x, y);void fun | int $\{(x, (x, y))\};$ fun () * x = 7; 2000 2010 * Y = 5; 1 punt (" x = 1 d y = 1 d", * x, * x); definition; it will affect it is the mais! function which is done using call by sufficerse.

PROBLEM 1:

```
#include <stdio.h>
 2
      #include <stdlib.h>
 3
      /** CALL BY VALUE **/
 4
      void fun(int,int);
 5
 6
      int main()
 7
    ₽{
           int x=5, y=7;
 8
           fun(x,y);
 9
           printf("Main function(calling function)\n");
printf("x=%d y=%d\n",x,y);
10
11
12
13
      void fun(int x, int y)
14
      x=7;
15
16
      y=5;
       printf("fun() function(called function)\n");
17
       printf("x=%d y=%d\n",x,y);
18
19
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                                                                                                            fun() function(called function)
x=7 y=5
Main function(calling function)
x=5 y=7
Process returned 0 (0x0) execution time : 0.047 s
Press any key to continue.
```

PROBLEM 2:

```
1
      #include <stdio.h>
 2
      #include <stdlib.h>
 3
      /** CALL BY REFERENCE **/
      void fun(int*,int*);
 5
 6
     int main()
 7
    □ {
 8
           int x=5, y=7;
 9
           fun(&x, &y);
10
           printf("Main function(calling function)\n");
11
           printf("x=%d y=%d\n",x,y);
12
13
      void fun(int *x,int *y)
14
       *x=7;
15
       *y=5;
16
17
       printf("fun() function(called function)\n");
       printf("x=%d y=%d\n", *x, *y);
18
19
20
■ "D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTURE_FUNCTIONS\FUNCTIONS_PART 4\...
fun() function(called function)
x=7 y=5
Main function(calling function)
x=7 y=5
Process returned 0 (0x0)
                      execution time : 0.094 s
Press any key to continue.
```