MISSIONARIES CANNIBAL - PROBLEM :

**print("\n GAME STARTS ")**

**print("\n Now the task is to move all 3 cannibals and 3 missionaries from left to right ")**

**print("\n the boat can carry 2 people at a time ")**

**print("\n If the cannibal value is greater than missionaries then the cannibal eat the massionaries ")**

**print("\n the boat cannot move other side without a people ")**

**lm = 3**

**lc = 3**

**rM = 0**

**rC = 0**

**userM = 0**

**userC = 0**

**k=0**

**print("\n C C C M M M |...........| \n")**

**try:**

**while(True):**

**while(True):**

**print("Left side -> right side of the river ")**

**uM = int(input("enter the number of missionaries travel -> : "))**

**uC = int(input("enter the nuumber of cannibals travel -> : "))**

**if((uM==0) and (uC==0)):**

**print("Empty travel is not possible ")**

**print("re-emter the value : ")**

**elif(((uM+uC)<= 2 )and((lm-uM)>=0) and ((lc-uC)>=0)):**

**break**

**else:**

**print("Wrong input re enter the number : ")**

**lm = (lm-uM)**

**lc = (lc-uC)**

**rM += uM**

**rC += uC**

**print("\n")**

**for i in range(0,lm):**

**print("M ",end=" ")**

**for i in range(0,lc):**

**print("C ",end=" ")**

**print(" | --> | ",end=" ")**

**for i in range(0,rM):**

**print("M ",end=" ")**

**for i in range(0,rC):**

**print("C ",end=" ")**

**print("\n ")**

**k +=1**

**if(((lc==3) and lm==1)) or ((lc==3)and ((lm==2 ) and (lm==1)) or ((rC==3 )and (rM==1)) or ((rC==3)and (rM==2 )or (rC==2) and (rM==1))):**

**print("cannibals eat missinories : \n you lost the game ")**

**break**

**if((rM+rC)==6):**

**print("\n ypu won the game , \n congrats" )**

**print("total attempts :")**

**print(k)**

**break**

**while(True):**

**print("right side -> left side river travel ")**

**userM=int(input("enter the number of missionaries : "))**

**userC= int(input("enter the number of cannibals : "))**

**if((userM==0)and(userC==0)):**

**print("Empty travel not possible ")**

**print("re enter the number : ")**

**elif(((userM+userC)<=2 )and( (rM-userM)>=0) and((rC-userC)>=0)):**

**break**

**else:**

**print("wron input re enter the number : ")**

**lm +=userM**

**lc +=userC**

**rM -=userM**

**rC -= userC**

**k+=1**

**print("\n")**

**for i in range(0,lm):**

**print("M ",end=" ")**

**for i in range(0,lc):**

**print("C ",end=" ")**

**print("| <-- | ",end=" ")**

**for i in range(0,rM):**

**print("M ",end=" ")**

**for i in range(0,rC):**

**print("C ",end=" ")**

**print("\n")**

**if (((lc == 3) and lm == 1)) or ((lc == 3) and ((lm == 2) and (lm == 1)) or ((rC == 3) and (rM == 1)) or ((rC == 3) and (rM == 2) or (rC == 2) and (rM == 1))):**

**print("cannibals eat missinories : \n you lost the game ")**

**break**

**except EOFError as e:**

**print("\n invalid input ")**