Function
    constant
        ALPHHEI(integer):=9;
        ALPHLEN(integer):=3;
        WORD[]={"AGULLA" ,"PILOTA" ,"CARTULINA" ,"RATOLI" ,
        "METALL" ,"NAUFRAGI" ,"VEHICLE" , "COMPILADOR" };
    endconstant
    var
        selectedLetter(character) := ' ';
        numSuccess (integer):= 0;
        numberRightAnswer(integer):=0;
        line1 (character):= ' ';
        line2 (character):= ' ';
        line31 (character):= ' ';
        line32 (character):= ' ';
        line33 (character):= ' ';
        line41 (character):= ' ';
        line42 (character):= ' ';
        levelInpu(boolean):= false;
        success (boolean):= false;
        charfound (bolean):= false;
        charRepeat(boolean):= true;
        level(character);
        i(integer):=0;
        j(integer):;
        k(integer):=0;
        posWord (integer):= rand()%5;
        numberAttempts (integer):= 0;
        alphabet [3][9]():= {{'A','B','C','D','E','F','G','H','I'},
                        {'J','K','L','M','N','N','O','P','Q'},
                        {'R','S','T','U','V','W','X','Y','Z'}};
        str1(character);
        wordToComplete[strlen(word[posWord])];
        insertedchars[25]; //array on emmagatzemarem els inputs del jugador
    endvar

    print("   **");
    print("   *********** BENVINGUTS AL JOC DEL PENJAT ***********");
    print("   **");

    print("Siusplau, introdueix el nivell de dificultat :");
    print("1. Facil \n");
    print("2. Normal \n");
    print("3. Dificil \n");
    print("4. Extrem \n");

    do
        level:=input();
        switch (level)
            case '1':
                print("Has escollit el nivell FACIL.Tindras 7 intents per trobar la paraula amagada!");
                numberAttempts := 7;
                levelInput:=true;
                break;
            case '2':
                print("Has escollit el nivell NORMAL. Tindras 5 intents per trobar la paraula amagada!");
                numberAttempts = 5;
                levelInput=true;

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                    break;
            case '3':
                    print("Has escollit el nivell DIFICIL. Tindras 4 intents per trobar la paraula amagada!");
                    numberAttempts = 4;
                    levelInput=true;
                    break;
            case '4':
                    print("Has escollit el nivell EXTREM. Tindras 3 intents per trobar la paraula amagada!");
                    numberAttempts = 3;
                    levelInput=true;
                    break;
            default :
                    print("Nivell no valid. Torna'l a introduir." );
        endswitch
while levelInput==false ;
print("Les lletres que introdueixis aniran desapareixent de l'alfabet.");
print("Pitja qualsevol tecla per continuar. ");
print("Nombre de intents que et queden: "+numberAttempts);

for i=0 to i<alphlen do
        for j=0 to j<alphhei
                printf(alphabet[i][j]);
                j=j+1;
        endfor
        i=i+1;
endfor
for i=0 to i<strlen(word[posWord]) do
        wordToComplete[i]:= '_';
        print(wordToComplete[i]);
        i=i+1;
endfor

print("+======+");
print("|      "+ line1);
print("|      "+line2);
print("|    ");
print("|     ");
print("|");
print("==========");


do
        selectedLetters:=input ("Introdueix una lletra :");
        selectedLetter= toupper(selectedLetter);

        for i=0; i<strlen(insertedchars) do
            if selectedLetter==insertedchars[i] then
                    selectedLetter :=input("Aquesta lletra ja ha estat introduida. Torna a introduir-ne una: ");
                    selectedLetter= toupper(selectedLetter);
                    i=0;
        endfor
        insertedchars[k]= selectedLetter;
        charfound=false;
        for i=0 to i<strlen(word[posWord]) do
            if selectedLetter==word[posWord][i] then
                    wordToComplete[i]=selectedLetter;
                    numberRightAnswer++;
                    charfound=true;
            endif
        endfor
        if charfound==false then
                    numberAttempts--;
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        endif


switch (level)
    case '1':
        switch(numberAttempts)
            case 6:
                line1='|';
                break;
            case 5:
                line2='O';
                break;
            case 4:
                line31='|';
                break;
            case 3:
                line32='/';
                break;
            case 2:
                line33='\\';
                break;
            case 1:
                line41='/';
                break;
            case 0:
                line42='/\\';
                break;
        endswitch
        break;
    case '2':
        switch(numberAttempts)
            case 4:
                line1='|';

                break;
            case 3:
                line2='O';

                break;
            case 2:
                line31='|';
                break;
            case 1:
                line32='/';
                line33='\\';
                break;
            case 0:
               line41='/';
               line42='/\\';
                break;
        endswitch
        break;

    case '3':
        switch(numberAttempts)
            case 3:
                line1='|';
                line2='O';
                break;
            case 2:
                line31='|';
                break;
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                    case 1:
                        line32='/';
                        line33='\\';
                        break;
                case 0:
                    line41='/';
                    line42='/\\';
                    break;
            endswitch
            break;
        case '4':
            switch(numberAttempts)
                case 2:
                    line1='|';
                    line2='O';
                    break;
                case 1:
                    line31='|';
                    line32='/';
                    line33='\\';
                    break;
                case 0:
                    line41='/';
                    line42='/\\';
                    break;
            endswitch
            break;
    endswitch

    print("Nombre de intents que et queden:"+numberAttempts);

    for i=0 to i<alphlen do
        for j=0 to j<alphhei do
            if selectedLetter==alphabet[i][j] then
                alphabet[i][j]=' ';
            endif
            print(alphabet[i][j]);
            j++;
        endfor
        i++;
    endfor

    for i=0 to i<strlen(word[posWord]) do
        print(wordToComplete[i]);
    endfor


    print("+=======+");
    print("|      "+line1);
    print("|      "+line2);
    print("|    "+line32+line31+line33);
    print("|      "+line41+line42);
    print("|");
    print("==========\");

    k++;

while numberRightAnswer<strlen(word[posWord]) && numberAttempts>0;

if strcmp(wordToComplete, word[posWord])==true then
    print("Felicitats!! Has guanyat!! La paraula era: "*wordToComplete);
else if (numberAttempts==0) then
    print("Has esgotat el nombre d'intents!!El joc s'ha acabat!!\n La paraula era : "+word[posWord]);
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        endif

        print("                    ***************************************************");
        print("                    *********** GRACIES PER JUGAR AL NOSTRE JOC ***********");
        print("                    ***************************************************");

endfunction
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