<u>Dashboard</u> / My courses / <u>SFP:HK2-2019-2020</u> / <u>Tập tin</u> / <u>Thao tác với tập tin văn bản</u>

Started on	Wednesday, 10 June 2020, 8:17 PM
State	Finished
Completed on	Saturday, 20 June 2020, 10:48 PM
Time taken	10 days 2 hours
Marks	5.33/11.00
Grade	<b>4.85</b> out of 10.00 ( <b>48</b> %)

Question **1**Correct

Mark 0.00 out of 1.00

Kiểm tra 1 mảng có được sắp xếp tăng dần hay không?

Cho một mảng các số thực được lưu trữ trong tập tin văn bản như sau:

- Dòng đầu tiên ghi 1 số nguyên n là số phần tử của mảng
- Dòng thứ 2 ghi n số thực, mỗi số cách nhau khoảng trắng

Viết <u>hàm</u> checkSort() để kiểm tra mảng số thực trong tập tin đầu vào có tăng dần hay không? Nếu tăng dần hiển thị YES, ngược lại ghi NO

### Khuôn dạng (Prototype)

- Tên <u>hàm</u>: checkSort
- Tham số:
  - char \*sInput: tên file đầu vào
- Kiểu trả về: void

#### Thân <u>hàm</u>

- Đọc nội dung file sInput, lưu trong mảng A.
- Kiểm tra mảng A tăng dần hay không? Nếu tăng dần hiển thị YES, ngược lại ghi NO

### Gợi ý

- Dùng fscanf để đọc từ tập tin vào.
- Dữ liệu vào là hợp lệ, sinh viên không cần kiểm tra

Ví dụ file nguồn

```
5
1.0 2.0 3.0 5.0 10.0
```

In ra:

YES

### For example:

Input	Result
tangdan1.txt	YES
tangdan2.txt	YES

**Answer:** (penalty regime: 33.3, 66.7, ... %)

```
1 void checkSort(char *sInput){
 2
        FILE *f;
 3
        int i,n,flag = 1;
        float a[100];
 4
 5
        f = fopen(sInput,"r");
        fscanf(f,"%d", &n);
 6
 7 🔻
        for(i = 0; i < n; i++){
            fscanf(f,"%f", &a[i]);
 8
        fclose(f);
10
11 1
        for(i = 0; i < n; ++i){
12 1
            if(a[i-1] > a[i]){
13
                flag = 0;
14
                break;
15
            }
16
        if(flag)
17
            printf("YES");
18
19
        else
20
            printf("NO");
21 }
```

Input Expected Got

	Input	Expected	Got	
~	tangdan1.txt	YES	YES	~
~	tangdan2.txt	YES	YES	~
~	tangdan3.txt	YES	YES	~
~	tangdan4.txt	NO	NO	~
~	tangdan5.txt	NO	NO	~

Correct

Question **2**Correct
Mark 0.00 out of 1.00

Mật mã Caesar là một phương pháp mã hoá cổ điển được đặt tên theo tên của Hoàng đế vĩ đại Julius Caesar. Tương truyền, Julius Caesar dùng phương pháp này để viết thư cho các người tình của mình.

Phương pháp mã hoá khá đơn giản: thay thế ký tự đang xét bằng ký tự đứng sau nó 3 ký tự trong bảng chữ cái, ví dụ: A được thay bằng D, B được thay bằng E, ..., X được thay bằng A, Y được thay bằng B, Z được thay bằng C.

Câu: THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG

Sẽ được mã hoá thành: WKH TXLFN EURZQ IRA MXPSV RYHU WKH ODCB GRJ

Viết <u>hàm</u> **encrypt** đọc 1 file văn bản, mã hoá nội dung của nó theo phương pháp mã hoá Caesar và ghi nội dung đã mã hoá vào một file văn bản khác.

#### Khuôn dạng (Prototype)

- Tên <u>hàm</u>: encrypt
- Tham số:
  - char \*sInput: tên file cần mã hoá
  - o char \*sOutput: tên file kết quả
- Kiểu trả về: void

#### Thân <u>hàm</u>

- Đọc nội dung file sInput, mã hoá và ghi kết quả vào file sOutput.
- Quy tắc mã hoá như sau:
  - Chỉ mã hoá các chữ cái (A Z, a z), các ký tự khác giữ nguyên
  - Đổi các chữ cái thành chữ hoa và mã hoá chữ cái theo phương pháp mật mã Caesar.

### Gợi ý

- Đọc từng dòng hoặc đọc từ ký tự, mã hoá, ghi kết quả ra file.
- Với từng ký tự là chữ cái A Z chuyển nó về số 0 25, lấy số tương ứng cộng thêm 3 và chia cho 26 lấy phần dư (để đảm bảo các số nằm trong khoảng từ 0 25), chuyển số trở thành chữ cái lại A Z.

#### For example:

Input	Result
file1.txt	WKH TXLFN EURZQ IRA MXPSV RYHU WKH ODCB GRJ

```
1 void encrypt(char *sInput, char *Output){
 2
        FILE *f,*fn;
 3
        char s[100];
 4
        int i;
 5
        f = fopen(sInput,"r");
        fn = fopen(Output, "w");
 6
 7 ▼
        while(fgets(s,100,f) != NULL){
 8 *
             if(s[strlen(s)-1] == '\n'){
                 s[strlen(s)-1] = '\0';
 9
10
             for(i = 0; i < strlen(s); i++){</pre>
11 🔻
                 if(s[i] >= 'A' && s[i] <= 'z'){
12 🔻
13 ▼
                     if(s[i] >= 'a'){
14
                          s[i] -= 32;
15
                     if(s[i] >= 'X'){
16
17
                         s[i]-=26;
18
19
                     s[i]+=3;
20
21
22
             fputs(s,fn);
             fprintf(fn,"\n");
23
24
        fclose(f);
25
        fclose(fn);
26
27 }
```

	Input	Expected	Got	
<b>~</b>	file1.txt	WKH TXLFN EURZQ IRA MXPSV RYHU WKH ODCB	WKH TXLFN EURZQ IRA MXPSV RYHU WKH ODCB GRJ	~

RI MKH VORZ DXXXPQ DW PB ZLQGRZ, LI L WRXFK QHOU WKH ILUH WKH LPSOSDEOH DVK RU WKH ZULQNOHG ERGB RI WKH ORJ, HYHUBWKLQJ FOULLHV PH NR BRX, DV LI HYHUBWKLQJ WKDW HALWW, DURPDY, OLJKN, PHMDOV, ZHUH OLWHOH ERDW WKDW VDLO WRZDUG WKRVH LVOHV RI BRXUV WKDW ZDLW IRU PH.  ZHOO, GRZ, LI L WXGGHQOB BRX TRUJHW PH L VKDOO VWRS ORYLQJ BRX OLWMOH EB OLWWOH.  LI VKGGHQOB BRX TRUJHW PH GR QNN ORRN IRU PH, IRU L VKDOO DOUHDGB KDYH IRUJRWWHQ BRX.  LI BRX WKLQN LW ORQJ DQG PDG, WKM ZLQG RI EDQQHUV WKDW VDLO WK ORDV WKDW XDLW WKDW XDLW WKDW SOVYW WKURXXX PB OLIH, DQG GRX GHFLGH WR ORDVYH PLDW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWY, L WKDOO OLTW PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU DQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHIN OKON BRX DUH GHVNLQHG IRU PH ZLMK LPSOSDFOEOH VXH WHN PH, DK PB GRYH, DK PB RZQ, LQ PH DOO WKDS ILUH LV UNSHDWING, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG PB QRNGLO GRR RQ, LQ PH QOW WKLQJX LVKHG GRU IRUJRWWHQ, DB GRYH ITHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG PB QRRWLQ LC VHAWLQXILVKHG RU IRUJRWWHQ, DB GRYH ITHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG PB QRNYH, DK PB RZQ, LQ PH DOO WKDS ILUH LV UNSHDWING, DGG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG PB QRNYH, DK PB RZQ, LQ PH DOO WKDS ILUH LV UNSHDWING, LQ PH QRWKLQJ LV HAWLQXILVKHG RU IRUJRWWHQ, DG GRYH ITHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG PB QRNYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV	lı	nput	Expected	Got	
RQH WKLQJ.  BRX NQRZ KRZ WKLV LV: LI L ORRN  DW WKH FUSWADO PRRQ, DW MKH UHG EUDQFK RI WKH VORZ DXXXPQ DW PB ZLQGRZ, LI L WASKE QHDU WKH TLUH  WKH LPSDOSDEOH DVK RU WKH ZLQKONG ERGB RI WKH ORJ, HYYUBWKLQJ FDUULHY PH WR BRX, DV LT HYYUBWKLQJ KOPH HALVWY, DURPDV, OLJKW, PHADOV, ZHUH OLWOH CROW  WKDW DVLO  WRZDUG WKRYH LVORV RI BRXUV WKDM ZDLW IRU PH.  ZHOO, ORZ, LI OLWOH BRD OLWOH BRX WWRS ORYLQJ PH L VKDOO DWRS ORYLQJ BRX OLWHOH EB OLWHOH.  LI VKGGHQOB BRX IRUJHW PH GR QRW ORRN IRU PH, IRU L VKDOO DOUHDGB KOYH IRUJRWANQ BRX.  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDVVHV WKURXK PB OLIH, DQG BRX GHELGH WR OHDYH PH DW MKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWY, LUHPPEHU WKDW ROW GND GDB, DW WCHW KKNU ZKHUH L KOYH URRWY, LU LVKDOO OLIN PB DUPV DQG FB URRW ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX ITHO MKON BRX DUH GHWULQHG IRU PH ZLWK LPSOPDEOH VZHHWQHVV, LI HDFK GDB, HDFK KRXU, BRX ITHO MKON BRX DUH GHWULQHG IRU PH ZLWK LPSOPDEOH OZHHWQHVV, LI HDFK GDB, HDFK KRXU, BRX ITHO MKON BRX DUH GHWULQHG IRU PH ZLWK LPSOPDEOH VZHHWQHVV, LI HDFK GDB D IORZHU POLPEV XS WR BRXU OLSV WR VHNN PH, DK PB ORVH, DK PB RZQ, LQ PH DOO KKON ILUH LV UHSHDMHG, LQ PH QRWKLQJ LV HAMLQJXLVEHG RU IRUJBRWHQ, PB ORVH JRHGV RQ BRXU ORVH, EHDRYNG, DQG DV ORQJ DV BRX OLYH HU ZLOO EH LQ BRXU DUPV  DUPON JOJKK, PHADOV, ZHIH LUWKDO PRRQ, DW MKH LUGKGR, LI L L KWKRK RU MKH LPSDOSDEOH DVW MKDW SDVWH WKUWC JULHA PH LV LVENGO LUHA PH MALWW, DUPPW JULHA PH MALWW, DV JULHA PH MALWW, DV JULHA PH MALWW, DV JULHA PH MARWA LPGGRR, ALI LI L WKRK RU LUH SHDWHG, DV JULHA PH MARWA LPGGRR, DW MKH ZUQG GR RG RI WKH CPU, DV JULHA PH MALWW, DV JULHA PH MARWA LPGGRR, ALI LI L WKRC QHU WKH LUHSH JULHA PH LI L VKDOO DUHHGB KDVH LUWH, DW JULHA PH MALWW, DV JULHA PH MARWA LPGGRR, ALI LI L WKRY RUH LUHA LUW, DW JULHA PH MALWW, DW JULHA PH MARWA LPGGRR, ALI LI L WKRY RUH LUHA PH LV	f	file2.txt	LI BRX IRUJHW PH:	LI BRX IRUJHW PH:	•
BRY NORZ KRZ NKLV LV: LI L ORRN DW MKH FUEWHOD PRRQ, DW MKH UHG EUDQFK RI MKH VORZ DXMXPP DW PB ZLQGRZ, LI L NRXFK QHOU MKH TLUH MKH LLQD,ONG ERGB RI MKH OR3, HYHUBMKLQJ FDUULIV PH WR BRX, DV LI HYHUBMKLQJ MKDH HLALVW, DUPPOY, OLJKW, PHMODOY, ZHHH OLMMOH ERDW MKDW VDLO MRZDUG WKRVH LVOHV RI BRXUV WKDW ZDLW IRU PH.  ZHOO, QRZ, LI OLMMOH EB OLMMOH BRX WWRS ORYLQJ PH L VKDOO VWRS ORYLQJ BRX OLMMOH EB OLMMOH.  LI VXGGRQOB BRX IRUJHM PH GR QRM ORRN I RU PH, IRU L VKDOO DOUHDGB KDYH TRUJRMANQ BRX.  LI BRX MKLQN LM ORQJ DQG PDG, MKH ZLQG RI EDQQRUV MKDM SDVVHV MKURXJR PB OLTH, DQG BRX GHELGH WR OHDYH PH DM MKH VKRUH RI MKH KHDUM ZKHUH L KDYH URRWY, LUPPPEHU MKDM RQ WKDM GDB, DM MKDM KRXU, L VKDOO OLTIA PB DUPV DQG PB URRWN ZLOO VHM RII WR VHHN DQRMKHU ODQS.  EXM LI HDFK GDB, HDFK KRXU, BRX IHD MKND BRX DUH GHWNLQHG IRU PH ZLMK LPSOPFDEOH VZHMANDIWV, LI HOFK GB D LORZHU FOLFEY XS MK BRXU OLSV WR VHEN PH, DK PB GRYH, DK PB RZQ, LQ PH DOO MKND ILUH LV UHSHDMHG, LQ PH QRWKLQJ LV HAMLQJXLVKHG RU IRUJRAMHO, DG DRYH IHHGV RQ BRXU ORVH, EHORYNG, DGG DV ORQJ DV BRX OLYH LW IZLOC EH LQ BRXU DUPV  DOPV  DOPY DO ORQJ DV BRX OLYH LW IZLOC EH LQ BRXU DUPV  DOPY DO ORQJ DV BRX OLYH LW IZLOC EH LQ BRXU DUPV  DOPY DO ORQJ DV BRX OLYH LW IZLOC EH LQ BRXU DUPV  DOP DRYH IHHGV RQ BRXU ORVH, EHORYNG, DGG DV ORQJ DV BRX OLYH LW IZLOC EH LQ BRXU DUPV			I ZDOLI DDV LID NODZ	I ZDOU DRY LID NORZ	
BRX NQRZ KRZ WKLV LV: LI L ORNN DW WHR FURWNOOD PRRQ, DW MKH UHG EUDQFK RI WKH VORZ DXWAPQ DW PB ZLQGRZ, LI L WRXFK QHOU WKH I LUH WKH LPSDOSDEOH DVX RU WKH ZULQWOHG ERGB RI WKH OR3, HYYHUBWKLQ J EDULLHV PH WR BRX, DV LI HYHUBWKLQ J WKDW HALVWV, DURPPOV, OLIVE, PHODOV, ZHUH OLWOH ERDWV WKDW VDLO WRZDDG WKRVH LVOHV RI BRXLV WKDW ZDLW IRU PH.  ZHOO, QRZ, LI OLWWOH EB OLWOH BRX VWRS ORYLQ J PH L VXDOO VMRS ORYLQ J BRX OLWMOH EB OLWWOH.  LI VXGGHQOB BRX IRUJHW PH GR QRW ORRN IRU PH, IRU L VXDOO DUNDGB KDYH IRUJRWANQ BRX.  LI BRX WKLQ LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDOWNYW WUGUXX FB OLIH, DQG BRX GHFLGH WR OHDYN PH DW WKR VRRUH RI WKH KEDDU ZKHUH L KDYH URRWV, UHPPHEHU WKDW SDOWNYW WUGUXX FB OLIH, DQG BRX GRI WKRUH CVRUH RI WKH KEDDU ZKHUH L KDYH URRWV, LI HDFK GDB, HOFK KRXU, BRX IHHO MKDW BRX DUH GHWMLQHG IRU PH ZLWK LPSOOFDEOH VZHRHQHVV, LI HOFK GDB, HOFK KRXU, BRX IHHO MKDW BRX DUH GHWMLQHG IRU PH ZLWK LPSOOFDEOH VOHR RII WR VHHN DQRWKHU ODQG.  EXM LI HDFK GDB, HOFK KRXU, BRX IHHO MKDW BRX DUH GHWMLQHG IRU PH ZLWK LPSOOFDEOH VZHRHQHVV, LI HOFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKOM ILUH LV UHSHDWHG, LQ PH QRWKLQI LV HANLQJXLVKHG RU IRUJRWAHQ, PB ORYH IHHOV RQ BRXU ORYH, EHORYNG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DOD DUPV  DOD ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DOD ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DOD ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DOD ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  BRX I HIHOW KQB BRX DRYH, EHORYNG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DOD ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  BRX I HHOW KGW BRX DUH CHWALQHG IRU PH ZLWK LPSOOFDEOH VZHRHQHVV, LI HOFK GBB D 100274U FOLPEV XS WR BRXU OLSY WR VHHN PH, DK PB ORYH, I HPGV PQ BRXU ORYH, EHORYNG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BDOW DUPV  DOO'N DRA ZLQGRZ BRX RUW LU WZDOO EN LQ BRXU ORYH, EHORYNG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BDOW					
LI L ORRN  DW MKH FUBWADO PRRQ, DW WKH UHG EUDQFK RI MKH VORZ DXMXPQ DW PB ZLGGRZ, LI L WAFKE QHDU WKH TLUH  WKH LPSDOSDEOH DWK RU MKH ZULQNOHG ERGG RI MKH ORJ, HYHBBMKLQJ FDUULHV PH NR BRX, DV LI HYHBBMKLQJ EDULHV PH NR BRX, DV LI HYHBBMKLQJ WCDM HALWW, DURPPO, OLIXM, PHABOW, ZHHO OLMOH ERDWW MKDM VDLO  WRZDUG WKRWH LVOHV RI BRXUV WKDW ZDLW IRU PH.  ZHOO, QRZ, LI OLMWOH EB OLMOH BRX VWRS GRYLQJ PH L VKDOO VWRS GRYLQJ BRX OLMOH EB OLWOH.  LI VXGGHQOB BRX IRUJHW PH GR QRW GRRN IRU PH, IRU L VKDOO DOUHOGB KDYH IRUJRWHWQ BRX.  LI BRX MKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHLV WKCM SDOVYN WKURXUX PB OLTH, DQG BRX GHFLGH WR OHDYH PH DW MKH VKRUH RI MKH KHOND ZCHUH L KDYH URRWV, LI HDFK GDB, DW MKOW KRXJ, L VKDOO OLIM PB DUPV DQG PB URRWY ZLOO WW RII WR VHNN DQRWKHU ODQG.  EXN LI HDFK GDB, HOFK KRXU, BRX INHO WCDW BRX DUH GHVWLQHG IRU PH ZLMK LPSOOPEGH VZHHAQHVV, LI HDFK GDB, HOFK KRXU, BRX INHO WCDW BRX DUH GHVWLQHG IRU PH ZLMK LPSOOPEGH VZHHAQHVV, LI HDFK GDB D TORZHU FOLPPEV XS WR BRXU OLSV WR VHHN PH, DK PB GRYH, DK PB RZQ, LQ PH GDOW KKDW ILUH LV UHSHDWHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  LI LU ZGG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  LI HDFK GDB D TORZHU LI HURSHANDA, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  LI HOFK GDB TORZHU LI HURSHANDA, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DQG PB ORYH I IHHOV RQ BRXU JORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  LI HYBLBMLQJ EV MAKH UHG EUDQFX RII HURSHANDA, DD WKOH KRXU, LI HORK GDB DRYN ILUH LV JUHSHDWHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DQG PB ORYH I IHHOV RQ BRXU JORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV			Ingi Milego	Ingi integr	
DW MICH FUBVADO PRRQ, DW INCH UNG EUOÇEK RI MICH VORZ DXWXPQ DW PB ZLQGRZ, LI L KRXFK QHDU MICH TLUH MICH LESDOSDEOH DVK RU MICH ZULQNONG ERGB RI MICH ORD, HYHBBRKLQ FDUULTV PH MR BRX, DV LI THYHBBRKLQ WEDW HALVWY, DURPDY, OLIKH, PHADOW, ZHLH OLIMONG ERGW MCDW VDLO MRZDUG MIRTWH LVOHY RI BRXUV MKOM ZDLW IRU PH.  ZHOO, QRZ, LI OLIMON EBDW WKDW YDLO MRZDUG MIRTWH LVOHY RI BRXUV MKOM ZDLW IRU PH.  ZHOO, QRZ, LI OLIMON EB OLIMOH BRX VARS ORYLQJ PH L VKDOO OVARS ORYLQJ BRX OLIMOH EB OLIMOH.  LI VXGGHQOB BRX TRUJHM PH GR QRIN ORRN IRU PH, IRU L VKDOO DOUHOGB KDYH IRUJRWANQ BRX.  LI BRX MKLQN LW ORQJ DQS PDG, MICH ZLQG RI EDQQHLV MKDW SDV-MY MICHXZIK PB OLIH, DQG BRX GRFLGH MR OHDYH FD M MICH VKRUH RI MICH KHDUM ZKHUH L KDYH URRMV, DW MKDW KRXU, L WKDOO OLIH PB DUPV DQC PB URRWY ZLOO VHR RII MR VHHN DQRMKHU ODQG.  EXM LI HDFK GDB, HDFK KRXU, BRX INHO MKDW BRX DUH GHVMLQHG IRU PH ZLMK LPSOOPEOH VZHANQHVV, LI HDFK GDB, HDFK KRXU, BRX INHO MKDW BRX DUH GHVMLQHG IRU PH ZLMK LPSOOPEOH VZHANQHVV, LI HDFK GDB, LO PH DOW MKDW ILUH LV UHSHDNHG, LQ PH QRINK-LQ] LV HANALQYXLVKHG RU IRUZMAMHQ, DQ DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQC PO RUR BRXU ORYN, EHORYNG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQC DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DVPV DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DX DR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU D			BRX NQRZ KRZ WKLV LV:	BRX NQRZ KRZ WKLV LV:	
RI MKH YORZ DXMXPQ DW PB ZLQGRZ, LI L WRXFK QHOU WKH ILUH WKH LPSDOSDEOH DVK RU WKH JLUGMOHE ERGB RI WKH ORJ, HYHUBWKLQJ FDUULHV PH WR BRX, DV LI HYHUBWKLQJ MKDW HALVWV, DURPDV, OLJKW, PHMOOV, ZHUH OLMKOH ERDWV WKON YOLO WRZOUG WKRVH LVOHV RI BRXUV WKDW ZDLW IRU PH.  ZHOO, QRZ, LI OLMKOH EB OLWWOH BRX VWRS ORYLQJ PH L VKCHOO VMRS ORYLQJ BRX OLWMOH EB OLWWOH.  LI VXGGHQOB BRX IRUJHW PH GR QRW ORRN IRU PH, IRU L VKCHOO DUHHGB KDYH IRUJRWWHQ BRX.  LI BRX WKLQN LM ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKON SDVVHV WKURXIX PB OLIH, DQG BRX GREIGH WR OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWY, L WKDW RQ WKOW GOB, DW WKDW KCWG GOB, DW WKDW KCWG GOB, DW WKDW KCWG GOB, DW WKDW ROBOR, LI WKOW RQ WKOW GOB, DW WKDW ROW ZLQG RI EDQQHUV WKOW SDVVHV WKURXIX PB OLIH, DQG GBX CHELGH WR OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWY, L WKOW RQ WKOW GOB, DW WKDW KCWG GOB, DW WKDW KCWG GOB, DW WKDW KCWG COB, DW WKDW ROW ZLQG RI EDQPV DQG PB URRWY ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG TRU PH ZLWK LPSOOPEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH GWRKLQJ LV HAMLCJXLLVKHG RU IRUJRWAHQ, DR DR ORYN ILHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV			LI L ORRN	LI L ORRN	
LI L WAXEK QHDU WKH ILUH WKH LYDLONGHE RERG RI WKH ORJ, HYHUBWKLDJ FOULLHV PH WR BRX, DV LI HYHUBWKLDJ DWLCHW PH WR BRX, DV LI HYHUBWKLDJ WKOM HALVWV, DURPDV, OLJKW, PHMOOV, ZHUH OLWANDH ERDWV WKOM VOLO WRZDUG WKRVH LVOHV RI BRXUV WKDW ZDLW IRU PH.  ZHOO, QRZ, LI OLWANDH EB OLWANCH BRX VWRS ORYLQJ PH L VKDOO OVWRS ORYLQJ BRX OLWANCH EB OLWANCH LI VKGGHQOB BRX IRUJHW PH GR QRW ORRN IRU PH, IRU L VKDOOD DOUNDGB KDYH IRUJRWHQ BRX.  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDVAHV WKURXJK PB OLTH, DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RI WKH KHOLW ZKHUH L KDYH URRWV, LUHPHPEHU WKDW ROW GDB, DW MKDW KRZU, L WKDOO OLTW PB DUPV DQG PB URRW ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HOFK GDB, HOFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSOOFDEOH VZHWQRMVY, LI HOFK GDB, HOFK KRXU, LI HOFK GDB, HORD WCHOM HOW				DW WKH FUBVWDO PRRQ, DW WKH UHG EUDQFK	
QHDU WKH ILUH WKH LPSDOSDEOH DVK RU WKH YLUCNOME ERGB RI WKH ORJ, HYHUBWKLQJ FOULLHV PH WR BRX, DV LI HYHUBWKLQJ WKOM HALWW, DURPDV, OLTKH, PHMODV, ZHUH OLWAGH ERDWV WKOM VOLO WRZDUG WKRVH LVOHV RI BRXUV WKDW ZDLW IRU PH.  ZHOO, QRZ, LI OLWAGH EB OLWAGH BRX VWRS ORYLQJ PH L VKDOO VWRS ORYLQJ BRX OLWAGH EB OLWAGH.  LI VXGGHQOB BRX TRUJHN PH GR QRM ORRN IRU PH, IRU L VKDOO DUHDGG KDYH IRUJRWWHQ BRX.  LI BRX WKLQN LW ORGJ DQG PDG, WKH ZLQG RI EDQQHUV WKDM SDOVHV WKURXIX PB OLIH, DQG BRX CHFLGH WR OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWY, UHPHPEHU WKOM RQ WKDW GDB, DW WKDM KRXU, L VKDOO OLIW PB DUPV DQG PB URRWY ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX THHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFEDEON VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYN, DK PB RCQ, DQ DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  OUPV OUPV OUPV OUP ORGJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV OUPV OUPV OUP OR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV OUPV OUPV OUPV OUPV OUPP OR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV OUPV OUPV OUPV OUPV OUP OR ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU OUPV OUPV OUPO OLIW HI ZLOO EH LQ BRXU ORYH I HMGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV					
WICH LPSDOSDEOH DVK RU WIKH ZULQNOHG ERGB RI WKH ORJ, HYHUBWIKLQJ FOULLHV PH WR BRX, DV LI HYHUBWIKLQJ WKDW HALLWV, DURPDV, OLJKW, PHWDOV, ZHUH OLJWOH ERDWV WKDW VDLO WRZDUG WKRVH LVOHV RI BRXLV WKDW ZDLW IRU PH.  ZHOO, QRZ, LI OLJWOH EB OLJWOH BRX VWRS ORYLQJ PH L VKDOO VWRS ORYLQJ BRX OLWOH BRX VWRS ORYLQJ PH L VKDOO VWRS ORYLQJ BRX OLWOH EB OLJWOH.  LI VKGGHQOB BRX IRUJHW PH GR QRW ORRN IRU PH, IRU L VKDOO DOUHDGB KDYH IRUJRWWHQ BRX.  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLGG RI EDQQHUV WKDW SOVYHW WKURXJX PB OLIH, DQG BRX GHFLGH WR OMDYH PH DW WKH VKRUH RI WKH KHODW ZKHUH L KDYH URRWV, LWPPPEHU WKDW RQ WKDW GDB, DW WKDW KRXU, L VKDOO OLIN PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX LTHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODOFEOM VZHWAWQHV, LI HDFK GDB, HDFK KRXU, BRX ITHO WKDW BRX VWRS ORYLQJ PH LL WYDOO DUHDOR BRX VWRS ORYLQJ PH L VKDOO DUHDGB KDYH IRUJRWWHQ BRX.  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLGG RI EDQQHUV WKDW SOVYHW WKURXIX PB OLIH, DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RI WKH KHODW ZKHUH L KDYH URRWV, RI WKH KHODW ZKHUH L KDYH URRWV, LI HDFK GDB, HDFK KRXU, BRX ITHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFEOM VZH-WQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO MKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH ITHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ RUVU UVV					
RU WKH ZULQNOHG ERGB RI WKH ORJ, HYHUBWKLQJ ENDULHY PH WR BRX, DV LI HYHUBWKLQJ KOW HALYWY, DURPDY, OLJKW, PHWDOV, ZHUH OLWWOH ERDWV WKDW VDLO WRZDUG WKRVH LVOHV RI BRXLIV WKDW ZDLW IRU PH.  ZHOO, QRZ, LI OLWWOH EB OLWWOH BRX VWRS ORYLQJ PH L VKDOO VWRS ORYLQJ BRX OLWWOH EB OLWWOH.  LI VXGGHQOB BRX IRUJHW PH GR QRW ORRN IRU PH, IRU L VKDOO DOUHOGB KDYH IRUJRWWHQ BRX.  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDVVHY WKURYXJK PB OLIH, DGG BRX GHFLGH WR OHDYH PH DW WKH VXRUH RI WKH KHDUW ZKHUH L KDYH URRWY, LUHPPEHU WKDW SDVVHY WKURXJK PB OLIH, DGG BRX GHFLGH WR OHDYH PH DW WKH VXRUH RI WKH KHDUW ZKHUH L KDYH URRWY, LI YKDOO OLIW PB DUPV DQG PB URRWY ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXH LI HDFK GDB, HDFK KRXU, BRX IHO WKDW BRX DUH GHVWLQHG IRU PH ZLUK LPSOOFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLDEV XS WR BRXD OLSY WR VHNN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LUY HAWLQJXLVKHG RU IRUJRWWHQ, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  ROW ORD J DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  ROW ORD J DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  RRDWG Y CISKW, PHWDOV, ZHUH OLWWOH ERDWY ZHOM OLIKWH ALVWY, DURPDY, OLIKW, PHWDOV, ZHUH OLWWOH ERDWY WKOM VDLO WRCDUG WKRW LLVOHV RI BRXLVW KKDW ZDLW WKOM CDL WRS ORYLQJ PH L VKDOO VWRS ORYLQJ PH L VKDOO OLIW BR DLWWI JCW WKDW SRY ILUH L KOYH IRUJRWWHQ BRX  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SEXVI, LW ORQJ DQG PDG, WKH ZLQG ROW ORQJ DQG PDG, WKH ZLQG ROW ORQJ DQG PDG, WKH ZLQG WKDW GBB,					
HYHUBIKLQJ FDUULHV PH INR BRX, DV LI HYHUBIKLQJ KKDW HALWV, DURPDV, OLIKN, PHADOV, ZHUH OLIMIOH ERDMV MIKDW VDLO MIKZDUG MKRVH LVOHV RI BRXUV MKDW ZDLW IRU PH.  ZHOO, QRZ, LI OLIMIOH EB OLIMIOH BRX VWRS ORYLQJ PH L VKDOO VWRS ORYLQJ BRX OLIMIOH EB OLIMIOH.  LI VKGGHQOB BRX IRUJHW PH GR QRW ORRN I RU PH, IRU L VKDOO DOUHDGB KDYH IRUJRWWHQ BRX.  LI BRX MKLQN LW ORQJ DQG PDG, MIKH ZLQG RI EDQQHUV MKDW SDVYHV MKURXJK PB OLTH, DQG BRX GHFLGH WR OHDYH PH DW MKH VKRUH RI WK HKDUW ZKHUH L KDYH URRNV,  UHPHPEHU MKDW RQ MKDW GDB, DW MKDW KRXU, L VKDOO OLIM PB DUPV DQG PB URRNV ZLOO VHW RII MR VHHN DQRMKHU ODQG.  EXM LT HDFK GDB, HDFK KRXU, BRX ITHO MKDW BRX DUH GHVWLQHG IRU PH ZLUK LPSDOFEOH VZHHWQHTV, LI HDFK GDB D IORZHU FOLDEV XS WR BRXU OLSV WR VHEN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LU UHSHDWHG, LQ PH QRNIKLQJ LV HANLQJXLVKHG RU IRUJRWWHQ, DB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  HYHUBMKLQJ WKDW HALWV, ZHUH OLIMIOH ERDWV WKDW VILO WKDW VILO WKDW ZDLW WKDW VILO WKDW VILO WKDW ZDLW WKDW ZDLW WKDW ZDLW WKDW ZDLW WKDW ZDLW WKDW SON GRYLQJ BRX OLHWHO EB OLIMW MKDW KRYU, II SEX MKLQN LW ORQJ DQG PDG, MKH ZLQG RI EDQQHUV WKDW SOVYHV WKURXJK PB OLIH, DQG BRX GHFLGH WR OHDYH PH DW MKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWV,  UHPHPEHU MKDW RQ MKDW GDB, DW MKDW KRXU, L VKDOO OLIH PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRMKHU ODQG.  EXW LT HDFK GDB J TORZHU FOLPEV XS WR BRXU OLSV WR VHEN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWMKLQJ LV HANLQJXLVKHG RU IRUJRRWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV					
DV LI HYPHUBWKLQJ WKDW HALVWY, DURPDY, OLJKW, PHMOOV, ZHUHO OLWMOH ERDWW WKDW VDLO WRZDUG WKRVH LVOHV RI BRXUV WKDW ZDLW IRU PH.  ZHOO, QRZ, LI OLWMOH EB OLWWOH BRX VWRS ORYLQJ PH L VKDOO VWRS ORYLQJ BRX OLWWOH EB OLWWOH.  LI VXGGHQOB BRX IRUJHW PH GR QRW ORRN IRU PH, IRU L VKDOO DOUHDGB KDYH IRUJRWWHQ BRX.  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDVVHV WKURXIX PB OLIH, DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWY, L VKDOO OLIW PB DUPV DQG PB URRWY ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HOFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSOOFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOW MKDQ IRX DK PL ARWLON, DGG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV DQC DQ DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV DQC DQ DQ DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV DQC DQ DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV					
DURPDY, OLJKH, PHHDOV, ZHUH OLWADH ERDWV WKDW WDLO  WRZDUG WKRYH LVOHV RI BRXUV WKDW ZDLW IRU PH.  ZHOO, QRZ, LI OLWADH EB OLWADH BRX VWRS ORYLQJ PH L VKDOO VWRS ORYLQJ BRX OLWADH EB OLWADH.  LI VXGGHQOB BRX IRUJHW PH GR QRW ORRN IRU PH, IRU L VKDOO DUNDOB KDYH IRUJRWWHQ BRX.  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDM SDVYH WKURXIX PB OLIH, DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWY, LVKDOO OLIM PB DUPY DQG PB URRWY ZLOO YHW RII WKDW KRXU, L VKDOO OLIM PB DUPY DQG PB URRWY ZLOO YHW RII WRDW ROW KRXU, L VKDOO OLIM PB DUPY DQG PB URRWY ZLOO YHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX INHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHAVY, LI HDFK GDB D TORZHU FOLFEY XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDM ILUH LV UHSHOWHG, LQ PH ORW KRDU JLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDM ILUH LV UHSHOWHG, LQ PH ORW KRULQ ILV HAWLQJXLVKHG RU IRUJRWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DGG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DGG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DGG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DGG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DGG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV					
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BRX IRUJHW PH GR QRW ORRN IRU PH, IRU L VKDOO DOUHDGB KDYH IRUJRWWHQ BRX.  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDVVHV WKURXJK PB OLIH, DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWV,  UHPHPEHU WKDW RQ WKDW GDB, DW WKDW KRXU, L VKDOO OLIW PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GOB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  BQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG PD ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV DQG PV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  BRX IRUJHW PH GR QR ORN TRU PH, GR QRW ORRN TRU PH, IRU L VKDOO DOUHDGB KDYH IRUJRWHQ BRX IRU L VKDOO DOUHDGB KDYH IRUJRWHQ BRX  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDVVHV WKURXJK PB OLIH, DQG RX GER EDQQHUV WKDW SDVVHV WKURXJK PB OLIH, WKDW SDVVHV WKURXJK PB OLIH, DQG RX GERY GER EDQQHUV WKDW SDVVHV WKURXJK PB OLIH, DQG BX ORRN TRU PH, IRU L VKDOO DOUHDGB KDYH IRUJRWHQ BRX  LI BRX WKLQN LW ORQJ DQG PD GP, WKH ZLQG RI EDQQHUV WKDW SDVVHV WKURXJK PB OLIH, DQG BX OKRN TRU PH, GR QR WCW GQB PW KH VKQQ DQG PD ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV			L VKDOO VWRS ORYLQJ BRX OLWWOH EB OLWWOH.	L VKDOO VWRS ORYLQJ BRX OLWWOH EB OLWWOH.	
GR QRW ORRN IRU PH, IRU L VKDOO DOUHDGB KDYH IRUJRWHQ BRX.  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDVVHV WKURXJK PB OLIH, DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWV, RI WKDW KRXU, L VKDOO OLIW PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  GR QRW ORRN IRU PH, IRU L VKDOO DOUHDGB KDYH IRUJRWWHQ BRX  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDVVHV WKURXJK PB OLIH, DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RR OHDYH PH DW WKDW SDVAH RU ROHDYH PH DW WKH VKRUH RR WKH KHDUW ZKHUH L KDYH URRWV, RI WKH KHDUW ZKHUH L KDYH URRWV, RI WKH KHDUW ZKHUH L KDYH URRWV, RI WKDW SDVVH WKURXJK PB OLIH, WKOW SDVVH WKURXJK PB OLIH, WKDW SDVVH WKDW SDVVH WKURXJK PB ORVH WKH KHDUW RWKH KLQA LW ORQJ DV BRX OLIH RW WKDW SDVVH WKURXJK PB OLIH, RW KH KHDUW ZKUUH WKOUK SEVEN ROHD SOVAH ROH STORT SEQ LI HEXWELD LW ORQN SOVAH ROH ORDN SOVAH ROH STORT SEQ LI HDFK GDB D UTN ROH ORDN SOVAH ROH ORDN SOVAH ROH ORDN			LI VXGGHQOB	LI VXGGHQOB	
IRU L VKDOO DOUHDGB KDYH IRUJRWWHQ BRX.  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDVYHV WKURXJK PB OLIH, DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWV,  UHPHPEHU WKDW RQ WKDW GDB, DW WKDW KRXU, L VKDOO OLIW PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH I HHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDVVHV WKURXJK PB OLIH, DQG BRX GHFLGH WR OHDYH WKHURJXL WRWH RO HDYH WKH VKRUH RI WKDW FOLWH VKRUH RI WKDW FQ WKDW GDB, DW MKDW KRXU, L UPHPPEHU WKDW RQ WKDW GDB, DW MKDW KRXU, L VKDOO OLIW PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWHQ, PB ORYH I HHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV					
LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW SDVVHV WKURXJK PB OLIH, DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWV,  UHPHPEHU WKDW RQ WKDW GDB, DW WKDW KRXU, L VKDOO OLIW PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  LI HDFK QB BRXU OLYH LW ZLOO EH LQ BRXU DUPV  LI BRX WKLQN LW ORQJ DQG PDG, WKH ZLQG RI EDQQHUV WKDW RZ LEQG RI EDQQHUV WKDW SDLVOHV WKLWZIK PB OLIH, DQG BRX GHFLGH WR OHDYH PB OLIH, DQG BRX GHFLGH WR OHDYH PB DLIH, DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RI WK HKDW CKRUH RI WKOW KRXU, LU HPPPEHU WKDW RQ WKDW GDB, DW MKDW KRXU, LU HPPPEHU WKDW RQ WKDW GDB, DW MKDW KRXU, L VKDOO OLIW PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHNN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV			GR QRW ORRN IRU PH,	GR QRW ORRN IRU PH,	
WKH ZLQG RI EDQQHUV WKDW SDVVHV WKURXJK PB OLIH, DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWV,  UHPHPEHU WKDW RQ WKDW GDB, DW WKDW KRXU, L VKDOO OLIW PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  WKDW SDVVHV WKURXJK PB OLIH, WKDW SDVVHV WKURXJK PB OLIH, WR OHDYH PH DW WKH VKRUH WR OHCHY PH DW WKH VKRUH IN WR OHCHY PH DW WKH VKRUH  I WKH KH ZLQG BRX GHFLG  UHPHPEHU WR OHCHY WR OHCHY WR OHCH PH DW WKH VKRUH  RI WKH KH CLQH WR OHCH WR			IRU L VKDOO DOUHDGB KDYH IRUJRWWHQ BRX.	IRU L VKDOO DOUHDGB KDYH IRUJRWWHQ BRX.	
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DQG BRX GHFLGH WR OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWY,  UHPHPEHU WKDW RQ WKDW GDB, DW WKDW KRXU, L VKDOO OLIW PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  UHPHPEHU WR OHDYH PH DW WKH VKRUH RI WK OHDYH PH DW WKH VKRUH RI WKH KHDUW ZKHUH L KDYH URRWV, RI WKH KHDUW ZKHUH L KDYH URPWY, L WHND QWKDW GDB, DW WKDW KRXU, L VKDOO OLIW PB DUPV  DQG PB URRWV ZLOO VHW RII  WK VHND QBC W KRU, L VKDOO OLIW PB DUPV  DQG PB URRWV ZLOO VHW RII  WKDW RQ WKDW GDB, DW WKDW KRXU, L VKDOO OLIW PB DUPV  DQG PB URRWV ZLOO VHW RII  HKDW KOM KRXU, L VKDOO OLIW PB DUPV  DQG PB URRWV ZLOO VHW RII  NKDW RQW WKDW GDB, DW WKDW KRXU, L VKDOO OLIW PB DUPV  DQG PB URRWV ZLOO VHW RII  NKDW RQW WKDW GDB, DW WKDW KRXU, L VKDOO OLIW PB DUPV  DQG PB URRWV ZLOO VHW RII  NKDW RQW WKDW KRU, L VKDOO OLIW PB DUPV  DQG PB U			WKH ZLQG RI EDQQHUV	WKH ZLQG RI EDQQHUV	l
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L VKDOO OLIW PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  LVKDOO OLIW PB DUPV DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV			WKDW RQ WKDW GDB,	WKDW RQ WKDW GDB,	
DQG PB URRWV ZLOO VHW RII WR VHHN DQRWKHU ODQG.  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV			DW WKDW KRXU,	DW WKDW KRXU,	
WR VHHN DQRWKHU ODQG.  EXW  LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  EXW  LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV					
EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  EXW LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV					
LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  LI HDFK GDB, HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV DUPV			WR VHHN DQRWKHU ODQG.	WR VHHN DQRWKHU ODQG.	
HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  HDFK KRXU, BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV			EXW	EXW	
BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV			LI HDFK GDB,	LI HDFK GDB,	
ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU  FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  ZLWK LPSODFDEOH VZHHWQHVV, LI HDFK GDB D IORZHU  FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV			HDFK KRXU,	HDFK KRXU,	l
LI HDFK GDB D IORZHU  FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  LI HDFK GDB D IORZHU FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV			BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH	BRX IHHO WKDW BRX DUH GHVWLQHG IRU PH	l
FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  FOLPEV XS WR BRXU OLSV WR VHHN PH, DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV				ZLWK LPSODFDEOH VZHHWQHVV,	
DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  DK PB ORYH, DK PB RZQ, LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV					
LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  LQ PH DOO WKDW ILUH LV UHSHDWHG, LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV					
LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  LQ PH QRWKLQJ LV HAWLQJXLVKHG RU IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV					
IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV IRUJRWWHQ, PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV					
PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DUPV  PB ORYH IHHGV RQ BRXU ORYH, EHORYHG, DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV					
DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ DUPV					
DUPV				DQG DV ORQJ DV BRX OLYH LW ZLOO EH LQ BRXU	
ZLWKRXW OHDYLQJ PLQH. ZLWKRXW OHDYLQJ PLQH.			ZLWKRXW OHDYLQJ PLQH.	ZLWKRXW OHDYLQJ PLQH.	
EB SDEOR QHUXGD EB SDEOR QHUXGD			EB SDEOR OHUXGD	EB SDEOR OHUXGD	

# Correct

Question **3**Correct

Mark 0.00 out of 1.00

Cho một danh sách sinh viên được lưu trữ trong một file văn bản có cấu trúc như bên dưới:

```
Nguyen Van A
5.6 7.9 10
Tran Van B
4 5 6
Bui Thi Tuong Van
7 9 4
```

- Dòng đầu tiên là một số nguyên n (0 < n < 100), mô tả số lượng sinh viên.
- 2n dòng tiếp theo lưu thông tin của các sinh viên. Mỗi sinh viên được lưu trong 2 dòng: dòng đầu là họ và tên (tối đa 50 ký tự), dòng thứ hai chứa 3 số thực mô tả điểm của 3 môn (Toán, Vật lý, Hoá học). Điểm nằm trong khoảng từ 0 đến 10.

Viết chương trình đọc danh sách các sinh viên từ một file văn bản theo định dạng như trên và in ra màn hình theo mẫu (thứ tự ngược lại với thứ tự trong file):

```
Toan |Vat ly |Hoa hoc |Ho va ten
7.00| 9.00 | 4.00 |Bui Thi Tuong Van
4.00| 5.00 | 6.00 |Tran Van B
5.60| 7.90 |10.00 |Nguyen Van A
Tong so: 3
```

#### Đầu vào

Một chuỗi s mô tả tên file danh sách (s có nhiều nhất 100 ký tự)

#### Đầu ra

• In danh sách sinh viên theo mẫu trên

### Chú ý

- Giá trị của các tham số luôn hợp lệ, không cần kiểm tra.
- Xem thêm chi tiết trong phần For example.

## Gợi ý

- Khai báo một cấu trúc sinh viên để lưu trữ thông tin của một sinh viên
- Khai báo một mảng các sinh viên để lưu trữ các sinh viên
- Sử dụng chuỗi định dạng phù hợp để in điểm của các sinh viên.

### For example:

Input	Result
file1.txt	Toan   Vat ly   Hoa hoc   Ho va ten 7.00   9.00   4.00   Bui Thi Tuong Van 4.00   5.00   6.00   Tran Van B 5.60   7.90   10.00   Nguyen Van A Tong so: 3
file3.txt	Toan   Vat ly   Hoa hoc   Ho va ten   9.50   10.00   8.50   Nguyen Truong Giang   6.90   4.50   10.00   Tran Huynh Ngoc Hien   6.50   7.50   9.80   Nguyen Vinh Tuong   10.00   3.50   9.50   Vo Phuoc Toan   7.90   7.50   4.50   Pham Minh Thang   9.50   5.50   6.80   Quach Huynh Huu Tai   8.90   8.50   10.00   Nguyen Thi Ngoc Nu Tong so: 7

```
#include <stdio.h>
 2
    #include <string.h>
 3 ▼ typedef struct{
 4
        char ten[100];
 5
        float t,1,h;
    }sv;
 6
7 v int main(){
 8
        FILE *f;
9
        char name[10];
10
        sv a[100];
11
        int n,i;
```

```
12
        fgets(name, 10, stdin);
13 🔻
        if(name[strlen(name)-1] == '\n'){
            name[strlen(name)-1] = '\0';
14
15
16
        f = fopen(name,"r");
        fscanf(f,"%d\n", &n);
17
18
        char h[100];
19 🔻
        for(i = 0; i < n; i++){</pre>
20
            fgets(h,100,f);
21 •
            if(h[strlen(h)-1] == '\n'){
22
               h[strlen(h)-1] = '\0';
23
24
            strcpy(a[i].ten, h);
25
            fscanf(f,"%f %f %f\n",&a[i].t, &a[i].l, &a[i].h);
26
27
        fclose(f);
        printf("Toan | Vat ly | Hoa hoc | Ho va ten\n");
28
        for(i = n-1; i >= 0; i--){
29 •
            printf("%5.2f|%5.2f |%5.2f |",a[i].t,a[i].l,a[i].h);
30
31
            puts(a[i].ten);
32
33
        printf("Tong so: %d",n);
34
        return 0;
35
36 }
```

	Input	Expected		Got		
~	file1.txt	Toan  Vat ly  Hoa hoc 7.00  9.00   4.00 4.00  5.00   6.00 5.60  7.90  10.00 Tong so: 3	Ho va ten  Bui Thi Tuong Van  Tran Van B  Nguyen Van A	Toan  Vat ly  Hoa ho 7.00  9.00   4.00 4.00  5.00   6.00 5.60  7.90  10.00 Tong so: 3	c  Ho va ten  Bui Thi Tuong Van  Tran Van B  Nguyen Van A	~
~	file2.txt	Toan  Vat ly  Hoa hoc 6.90   4.50   10.00   6.50   7.50   9.80   10.00   3.50   9.50   Toan   7.90   7.50   4.50   4.50   5.50   6.80   8.60   8.50   10.00   Tong so: 6	Ho va ten  Nguyen Thi Kim Ngan  Nguyen Gia Khoi  Nguyen Hoang Thanh  Ho Viet Hung  Nguyen Minh Viet  Le Quoc Khanh	Toan  Vat ly  Hoa ho 6.90  4.50  10.00 6.50  7.50   9.80 10.00  3.50   9.50 Toan 7.90  7.50   4.50 4.50  5.50   6.80 8.60  8.50  10.00 Tong so: 6	Ho va ten   Nguyen Thi Kim Ngan   Nguyen Gia Khoi   Nguyen Hoang Thanh   Ho Viet Hung   Nguyen Minh Viet   Le Quoc Khanh	~
~	file3.txt	Toan  Vat ly  Hoa hoc 9.50 10.00   8.50   6.90  4.50  10.00   Hien 6.50  7.50   9.80   10.00  3.50   9.50   7.90  7.50   4.50   9.50  5.50   6.80   8.90  8.50  10.00   Tong so: 7	Ho va ten  Nguyen Truong Giang  Tran Huynh Ngoc  Nguyen Vinh Tuong  Vo Phuoc Toan  Pham Minh Thang  Quach Huynh Huu Tai  Nguyen Thi Ngoc Nu	Toan  Vat ly  Hoa ho 9.50 10.00   8.50   6.90  4.50  10.00   Hien 6.50  7.50   9.80   10.00  3.50   9.50   7.90  7.50   4.50   9.50  5.50   6.80   8.90  8.50  10.00   Tong so: 7	C  Ho va ten  Nguyen Truong Giang  Tran Huynh Ngoc  Nguyen Vinh Tuong  Vo Phuoc Toan  Pham Minh Thang  Quach Huynh Huu Tai  Nguyen Thi Ngoc Nu	~

Correct

Question **4**Correct

Mark 0.33 out of 1.00

Mảng đối xứng gọi là PALINDROME. Ví dụ mảng 1.0 2.0 3.0 2.0 1.0 là PALINDROME.

Cho một mảng các số thực được lưu trữ trong tập tin văn bản như sau:

- Dòng đầu tiên ghi 1 số nguyên n là số phần tử của mảng
- Dòng thứ 2 ghi n số thực, mỗi số cách nhau khoảng trắng

Viết <u>hàm</u> checkPalindrome() để kiểm tra mảng số thực trong tập tin đầu vào có đối xứng hay không? Nếu đối xứng ghi lên tập tin đầu ra YES, ngược lại ghi NO

#### Khuôn dạng (Prototype)

- Tên <u>hàm</u>: checkPalindrome
- Tham số:
  - char \*sInput: tên file đầu vào
  - o char \*sOutput: tên file kết quả
- Kiểu trả về: void

#### Thân <u>hàm</u>

- Đọc nội dung file sInput, lưu trong mảng A.
- Kiểm tra mảng A đối xứng hay không? Nếu đối xứng ghi lên tập tin sOutput YES, ngược lại ghi NO

### Gợi ý

- Dùng fscanf để đọc từ tập tin vào.
- Dữ liệu vào là hợp lệ, sinh viên không cần kiểm tra

Ví dụ file nguồn

```
5
1.0 2.0 3.0 2.0 1.0
```

In ra:

YES

### For example:

Input	Result
palindrome1.txt	YES
palindrome2.txt	YES

```
1 v int dx(float a[], int n){
 2
 3 ▼
        for(i = 0; i < n/2-1; i++){
             if(a[i] != a[n-1-i]){
 4 ▼
 5
                 return 0;
 6
             }
 7
 8
        return 1;
 9
   void checkPalindrome(char *sInput, char *sOutput){
11
        int n;
12
13
        float a[100];
14
         int i;
         f = fopen(sInput, "r");
15
        fscanf(f,"%d", &n);
16
         for(i = 0; i < n; i++){</pre>
17
             fscanf(f,"%f", &a[i]);
18
19
         fclose(f);
20
         f =fopen(sOutput,"w");
21
22 •
         if(dx(a,n)){
             puts("YES");
23
24
         }
25
         else
26
             puts("NO");
27
         fclose(f);
28
29 }
```

	Input	Expected	Got	
~	palindrome1.txt	YES	YES	~
~	palindrome2.txt	YES	YES	~
~	palindrome3.txt	YES	YES	~
~	palindrome4.txt	NO	NO	~
~	palindrome5.txt	NO	NO	<b>~</b>

Correct

Question **5**Correct

Mark 1.00 out of

1.00

Viết chương trình đọc một file văn bản và in nội dung của file ra màn hình

#### Đầu vào

• một chuỗi s - tên file (không chứa khoảng trắng). Tên file có ít hơn 10 ký tự. Mỗi dòng của file chứa ít hơn 100 ký tự

#### Đầu ra

Nội dung file s

#### Chú ý

- Dữ liệu đầu vào luôn hợp lệ, không cần kiểm tra.
- Xem thêm chi tiết trong phần For example.

### Gợi ý

- Mỗi dòng đều kết thúc bằng ký tự xuống dòng ('\n')
- Dòng cuối cùng có thể không chứa ký tự xuống dòng
- Đọc từng dòng cho đến khi không còn gì để đọc (tham khảo <u>hàm</u> fgets)

### For example:

Input	Result
file1.txt	dong 1
	dong 3

**Answer:** (penalty regime: 33.3, 66.7, ... %)

```
#include <stdio.h>
 2
   #include <string.h>
 3 ▼ int main(){
        char s[10],str[100];
 4
        fgets(s,100,stdin);
 5
        if(s[strlen(s)-1] == '\n'){
 6 ₹
            s[strlen(s)-1] = '\0';
 7
 8
 9
        FILE *f;
        f = fopen(s,"r");
10
11 🔻
        while(fgets(str,100,f) != NULL){
            if(str[strlen(str)-1] == '\n'){
12 🔻
                str[strlen(str)-1] = '\0';
13
14
15
            puts(str);
16
        fclose(f);
17
18
        return 0;
19
```

	Input	Expected	Got	
<b>~</b>	file1.txt	dong 1	dong 1	<b>~</b>
		dong 3	dong 3	
~	file2.txt	dong 1	dong 1	~
		dong 3	dong 3	
		dong 4	dong 4	

Passed all tests! ✓

### Correct

Marks for this submission: 1.00/1.00.

Question **6**Correct

Mark 1.00 out of 1.00

Viết chương trình đọc một file văn bản và in các dòng không rỗng ra màn hình.

#### Đầu vào

• một chuỗi s - tên file (không chứa khoảng trắng). Tên file có ít hơn 10 ký tự. Mỗi dòng của file chứa ít hơn 100 ký tự

#### Đầu ra

Nội dung file s

### Chú ý

- Dữ liệu đầu vào luôn hợp lệ, không cần kiểm tra.
- Xem thêm chi tiết trong phần For example.

### Gợi ý

- Mỗi dòng đều kết thúc bằng ký tự xuống dòng ('\n')
- Dòng cuối cùng có thể không chứa ký tự xuống dòng
- Đọc từng dòng cho đến khi không còn gì để đọc (tham khảo <u>hàm</u> fgets)

### For example:

Input	Result
file1.txt	dong 1 dong 3

**Answer:** (penalty regime: 33.3, 66.7, ... %)

```
1 #include <stdio.h>
 2
   #include <string.h>
 3 v int main(){
 4
        char s[10],str[100];
        fgets(s,100,stdin);
 5
        if(s[strlen(s)-1] == '\n'){
 6 ▼
            s[strlen(s)-1] = '\0';
 7
 8
 9
        FILE *f;
10
        f = fopen(s,"r");
        while(fgets(str,100,f) != NULL){
11 🔻
12 🔻
            if(str[strlen(str)-1] == '\n'){
                str[strlen(str)-1] = '\0';
13
14
            if(strlen(str) > 1)
15
16
                puts(str);
17
        fclose(f);
18
        return 0;
19
20
```

		Input	Expected	Got	
~	•	file1.txt	dong 1 dong 3	dong 1 dong 3	~
•		file2.txt	dong 1 dong 3 dong 4	dong 1 dong 3 dong 4	<b>~</b>

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Question **7**Correct

Mark 1.00 out of 1.00

Viết <u>hàm</u> write\_text để ghi giá trị của hai biến a và b vào file f.

# **Khuôn dạng (Prototype)**

- Tên <u>hàm</u> (function name): **write\_text**
- Tham số (parameters):
  - FILE \*f
  - o int a
  - o int b
- Kiểu trả về (return type): **void**

### Thân <u>hàm</u> (Body)

• Lưu nội dung của biến a và biến b vào file f dưới dạng văn bản, hai số cách nhau 1 khoảng trắng. File f đã được mở cho phép ghi dưới dạng văn bản.

### Chú ý

- Giá trị của các tham số luôn hợp lệ, không cần kiểm tra.
- Chỉ viết <u>hàm</u>, KHÔNG VIẾT TOÀN BỘ CHƯƠNG TRÌNH
- Xem thêm chi tiết trong phần For example.

### For example:

Test	Result
write_text(f, 4, 7);	4 7
write_text(f, -1, -4);	-1 -4

**Answer:** (penalty regime: 33.3, 66.7, ... %)

```
1 void write_text(FILE *f, int a, int b){
    fprintf(f,"%d %d",a,b);
}
```

	Test	Expected	Got	
~	write_text(f, 4, 7);	4 7	4 7	~
~	write_text(f, 0, 70);	0 70	0 70	~
~	write_text(f, -1, -4);	-1 -4	-1 -4	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Question **8**Correct
Mark 0.00 out of 1.00

Cho một bảng hình chữ nhật kích thước m\*n (m dòng, n cột), các dòng được đánh thứ tự từ trên xuống, các cột được đánh thứ tự từ trái sang. Có một ô trong bảng không nhận giá trị (ô trống), các ô còn lại nhận 1 giá trị từ 1..m\*n-1 (không có 2 ô có giá trị giống nhau).

Người chơi sẽ tiến hành hoán đổi ô trống và các ô có giá trị lân cận để đạt đến trạng thái kết thúc của trò chơi.

Trò chơi gọi là kết thúc nếu các giá trị 1..*m\*n-1* lần lượt theo thứ tự được bố trí vào các ô (1, 1), (1, 2), ..., (1,n); (2, 1), (2, 2), ...,(2, n),...; (m,1), (m,2),..., (m, n-1).

Cho kích thước của bảng chữ nhật  $m^*n$  và giá trị hiện hành của các ô trong bảng. Kiểm tra xem trò chơi đạt trạng thái kết thúc hay chưa?

Bảng chữ nhật được lưu trữ trong tập tin văn bản như sau:

- Dòng đầu tiên ghi 2 số nguyên m,n mỗi số cách nhau khoảng trắng
- -m dòng tiếp theo mỗi dòng ghi n giá trị (từ 0..m\*n-1), mỗi giá trị cách nhau 1 khoảng trắng. Giá trị 0 tại ô (i, j) cho biết ô (i,j) là ô trống

### Ví dụ:

- 3 3
- 1 2 3
- 6 5 4
- 780

Viết <u>hàm</u> isFinished() để kiểm tra bảng hình chữ nhật trong tập tin đầu vào biểu diễn cho trạng thái kết thúc hay không? Nếu có ghi lên tập tin đầu ra YES, ngược lại ghi NO

#### Khuôn dạng (Prototype)

- Tên <u>hàm</u>: checkFinished
- Tham số:
  - o char \*sInput: tên file đầu vào
- Kiểu trả về: void

#### Thân <u>hàm</u>

- Đọc nội dung file sInput, lưu trong bảng A.
- Kiểm tra bảng A có biểu diễn trạng thái kết thúc của trò chơi Puzzle hay không? Nếu có hiển thị YES, ngược lại ghi NO

### Gợi ý

- Dùng fscanf để đọc từ tập tin vào.
- Dữ liệu vào là hợp lệ, sinh viên không cần kiểm tra

Ví dụ file nguồn

### Ví dụ 1:

- 3 3
- 1 2 3
- 6 5 4
- 780

--> NO

# Ví dụ 2:

- 2 3
- 1 2 3
- 4 5 0

--> YES

## For example:

Input	Result
puzzle1.txt	NO

```
Input Result
puzzle2.txt YES
```

**Answer:** (penalty regime: 33.3, 66.7, ... %)

```
1 ▼ typedef struct{
 2
        int m,n;
        int A[100][100];
 3
 4
   }mang;
 5 | int isFinished(mang a){
        int i,j,flag = 1;
 6
 7 ▼
        for (i = 0; i < a.m; i++){
 8 🔻
            for (j = 0; j < a.n; j++){}
                 if(a.A[i][j] == 0){
 9 •
10
                     a.A[i][j] = a.m*a.n;
11
12
                 if (a.A[i][j] != (i*a.n+j+1))
13
                     flag = 0;
14
15
16
        return flag;
17
18
    void checkFinished(char *sInput){
19
        FILE *f;
20
        int i,j;
        mang s;
21
22
        f = fopen(sInput,"r");
        fscanf(f,"%d %d", &s.m, &s.n);
23
24 ▼
        for(i = 0; i < s.m; i++){
            for(j = 0; j < s.n; j++){</pre>
25 1
                 fscanf(f,"%d", &s.A[i][j]);
26
27
            }
28
29
        fclose(f);
        if(isFinished(s)){
30 ▼
            printf("YES");
31
32
        }
33
        else
34
            printf("NO");
35 }
```

	Input	Expected	Got	
~	puzzle1.txt	NO	NO	~
~	puzzle2.txt	YES	YES	~

Passed all tests! 🗸

Correct

Question **9**Correct
Mark 0.67 out of 1.00

Viết chương trình đọc một file văn bản và đếm xem file đó có bao nhiều dòng.

#### Đầu vào

• một chuỗi s - tên file (không chứa khoảng trắng). Tên file có ít hơn 10 ký tự. Mỗi dòng của file chứa ít hơn 100 ký tự

#### Đầu ra

• Một số nguyên duy nhất là số dòng trong file

#### Chú ý

- Dữ liệu đầu vào luôn hợp lệ, không cần kiểm tra.
- Xem thêm chi tiết trong phần For example.

### Gợi ý

- Mỗi dòng đều kết thúc bằng ký tự xuống dòng ('\n')
- Dòng cuối cùng có thể không chứa ký tự xuống dòng
- Đọc từng dòng cho đến khi không còn gì để đọc (tham khảo <u>hàm</u> fgets)

### For example:

Input	Result
file1.txt	3

**Answer:** (penalty regime: 33.3, 66.7, ... %)

```
#include <stdio.h>
   #include <string.h>
 2
 3 v int main(){
        char name[10],str[100];
 4
 5
        FILE *f;
        int count = 0;
 6
 7
        fgets(name, 10, stdin);
        if(name[strlen(name)-1] == '\n'){
 8 🔻
            name[strlen(name-1)] = '\0';
 9
10
        f = fopen(name, "r");
11
        while(fgets(str,100,f) != NULL){
12 ▼
            count++;
13
14
15
        fclose(f);
        printf("%d",count);
16
17
        return 0;
18 }
```

	Input	Expected	Got	
~	file1.txt	3	3	~
~	file2.txt	4	4	~

Passed all tests! 🗸

Correct

1.00

Question **10**Correct

Mark 1.00 out of

Viết chương trình đọc một file văn bản chứa một file nguồn của ngôn ngữ C. Hãy in nội dung của file này ra màn hình và bỏ qua các phần chú thích có trong file. Giả sử file nguồn chỉ chứa các chú thích dạng:

//chú thích

### Ví dụ file nguồn

```
int main () { //khai bao ham main
   int a; //khai bao bien
   //lenh return
   return 0;
}
```

#### In ra:

```
int main () {
   int a;
   return 0;
}
```

### Đầu vào

• một chuỗi s - tên file (không chứa khoảng trắng). Tên file có ít hơn 10 ký tự. Mỗi dòng của file chứa ít hơn 100 ký tự

#### Đầu ra

• Nội dung file s

#### Chú ý

- Dữ liệu đầu vào luôn hợp lệ, không cần kiểm tra.
- Xem thêm chi tiết trong phần For example.

#### Gợi ý

- Mỗi dòng đều kết thúc bằng ký tự xuống dòng ('\n')
- Dòng cuối cùng có thể không chứa ký tự xuống dòng
- Đọc từng dòng cho đến khi không còn gì để đọc (tham khảo <u>hàm</u> fgets), tìm vị trí của chuỗi \\ trong dòng (tham khảo <u>hàm</u> strstr() và phép toán trừ 2 con trỏ cho nhau)

### For example:

Input	Result
source.c	<pre>int main () {    int a;</pre>
	return 0;

```
1 #include <stdio.h>
   #include <string.h>
 3 ▼ int main(){
 4
        FILE *f;
 5
        char name[10],str[100];
         fgets(name, 10, stdin);
 6
 7 1
         if(name[strlen(name)-1] == '\n'){
             name[strlen(name)-1] = '\0';
 8
 9
        int i;
10
        f = fopen(name, "r");
11
         while(fgets(str,100,f) != NULL){
12 🔻
13 •
             for(i = 0; i < strlen(str); i++){</pre>
                 if(str[i] == '/'){
14
                     if(str[i] == '/'){
15 🔻
                          printf("\n");
16
17
                          break;
18
19
                 printf("%c",str[i]);
20
21
22
23
         fclose(f);
24
         return 0;
```

25 }

	put Expected Got	
source.c	int a; int a; return 0; return 0;	~
	return 0; return 0; }	

Question **11**Correct
Mark 0.33 out of 1.00

Mật mã Caesar là một phương pháp mã hoá cổ điển được đặt tên theo tên của Hoàng đế vĩ đại Julius Caesar. Tương truyền, Julius Caesar dùng phương pháp này để viết thư cho các người tình của mình.

Phương pháp mã hoá khá đơn giản: thay thế ký tự đang xét bằng ký tự đứng sau nó 3 ký tự trong bảng chữ cái, ví dụ: A được thay bằng D, B được thay bằng E, ..., X được thay bằng A, Y được thay bằng B, Z được thay bằng C.

Câu: THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG

Sẽ được mã hoá thành: WKH TXLFN EURZQ IRA MXPSV RYHU WKH ODCB GRJ

Để giải mã ta sẽ làm ngược lại: thay thế ký tự đang xét bằng ký tự đứng trước nó 3 ký tự trong bảng chữ cái:

- D -> A
- E -> B
- ...
- A -> X
- B -> Y
- C -> Z

Viết <u>hàm</u> **decrypt** đọc 1 file văn bản, mã hoá nội dung của nó theo phương pháp mã hoá Caesar và ghi nội dung đã mã hoá vào một file văn bản khác.

#### Khuôn dạng (Prototype)

- Tên <u>hàm</u>: decrypt
- Tham số:
  - o char \*sInput: tên file cần mã hoá
  - o char \*sOutput: tên file kết quả
- Kiểu trả về: void

#### Thân hàm

- Đọc nội dung file sInput, mã hoá và ghi kết quả vào file sOutput.
- Quy tắc mã hoá như sau:
  - Chỉ giải mã các chữ cái (A Z, a z), các ký tự khác giữ nguyên
  - Đổi các chữ cái thành chữ hoa và giãi mã chữ cái theo phương pháp mật mã Caesar.

### Gợi ý

- Đọc từng dòng hoặc đọc từ ký tự, mã hoá, ghi kết quả ra file.
- Với từng ký tự là chữ cái A Z chuyển nó về số 0 25, lấy số tương ứng cộng 23 (23 = -3 + 26) và chia cho 26 lấy phần dư (để đảm bảo các số nằm trong khoảng từ 0 25), chuyển số trở thành chữ cái lại A Z.

### For example:

Input	Result
file3.txt	THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG

```
1 void decrypt(char *sInput, char *sOutput){
 2
        FILE *f,*fn;
        char s[100];
 3
 4
        int i;
 5
        f = fopen(sInput,"r");
        fn = fopen(sOutput,"w");
 6
        while(fgets(s,100,f) != NULL){
 7 🔻
 8
             if(s[strlen(s)-1] == '\n'){
 9
                 s[strlen(s)-1] = '\0';
10
             for(i = 0; i < strlen(s); i++){</pre>
11 🔻
                 if(s[i] >= 'A' && s[i] <= 'Z'){
12 🔻
13 1
                     if(s[i] <= 'C'){
                         s[i]+=26;
14
15
16
                     s[i]-=3;
17
18
19
             fputs(s,fn);
20
             fprintf(fn,"\n");
21
22
         fclose(f);
         fclose(fn);
23
24 }
```

	Input	Expected	Got
<b>~</b>	file3.txt	THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG	THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG
<b>/</b>	file4.txt	IF YOU FORGET ME:	IF YOU FORGET ME:
		I WANT YOU TO KNOW	I WANT YOU TO KNOW
		ONE THING.	ONE THING.
		YOU KNOW HOW THIS IS:	YOU KNOW HOW THIS IS:
		IF I LOOK	IF I LOOK
		AT THE CRYSTAL MOON, AT THE RED BRANCH	AT THE CRYSTAL MOON, AT THE RED BRANCH
		OF THE SLOW AUTUMN AT MY WINDOW,	OF THE SLOW AUTUMN AT MY WINDOW,
		IF I TOUCH	IF I TOUCH
		NEAR THE FIRE	NEAR THE FIRE
		THE IMPALPABLE ASH	THE IMPALPABLE ASH
		OR THE WRINKLED BODY OF THE LOG,	OR THE WRINKLED BODY OF THE LOG,
		EVERYTHING CARRIES ME TO YOU, AS IF EVERYTHING THAT EXISTS,	EVERYTHING CARRIES ME TO YOU, AS IF EVERYTHING THAT EXISTS,
		AROMAS, LIGHT, METALS,	AROMAS, LIGHT, METALS,
		WERE LITTLE BOATS	WERE LITTLE BOATS
		THAT SAIL	THAT SAIL
		TOWARD THOSE ISLES OF YOURS THAT WAIT FOR	TOWARD THOSE ISLES OF YOURS THAT WAIT FOR
		ME.	ME.
		WELL, NOW,	WELL, NOW,
		IF LITTLE BY LITTLE YOU STOP LOVING ME	IF LITTLE BY LITTLE YOU STOP LOVING ME
		I SHALL STOP LOVING YOU LITTLE BY LITTLE.	I SHALL STOP LOVING YOU LITTLE BY LITTLE.
		IF SUDDENLY	IF SUDDENLY
		YOU FORGET ME	YOU FORGET ME
		DO NOT LOOK FOR ME,	DO NOT LOOK FOR ME,
		FOR I SHALL ALREADY HAVE FORGOTTEN YOU.	FOR I SHALL ALREADY HAVE FORGOTTEN YOU.
		IF YOU THINK IT LONG AND MAD,	IF YOU THINK IT LONG AND MAD,
		THE WIND OF BANNERS	THE WIND OF BANNERS
		THAT PASSES THROUGH MY LIFE,	THAT PASSES THROUGH MY LIFE,
		AND YOU DECIDE	AND YOU DECIDE
		TO LEAVE ME AT THE SHORE OF THE HEART WHERE I HAVE ROOTS,	OF THE HEART WHERE I HAVE ROOTS,
		REMEMBER	REMEMBER
		THAT ON THAT DAY,	THAT ON THAT DAY,
		AT THAT HOUR,	AT THAT HOUR,
		I SHALL LIFT MY ARMS	I SHALL LIFT MY ARMS
		AND MY ROOTS WILL SET OFF TO SEEK ANOTHER LAND.	AND MY ROOTS WILL SET OFF
		TO SEEK ANOTHER LAND.	TO SEEK ANOTHER LAND.
		BUT	BUT
		IF EACH DAY,	IF EACH DAY,
		EACH HOUR,	EACH HOUR,
		YOU FEEL THAT YOU ARE DESTINED FOR ME	YOU FEEL THAT YOU ARE DESTINED FOR ME
		WITH IMPLACABLE SWEETNESS,	WITH IMPLACABLE SWEETNESS,
		IF EACH DAY A FLOWER	IF EACH DAY A FLOWER
		CLIMBS UP TO YOUR LIPS TO SEEK ME, AH MY LOVE, AH MY OWN,	CLIMBS UP TO YOUR LIPS TO SEEK ME, AH MY LOVE, AH MY OWN,
		IN ME ALL THAT FIRE IS REPEATED,	IN ME ALL THAT FIRE IS REPEATED,
		IN ME NOTHING IS EXTINGUISHED OR	IN ME NOTHING IS EXTINGUISHED OR
		FORGOTTEN,	FORGOTTEN,
		MY LOVE FEEDS ON YOUR LOVE, BELOVED,	MY LOVE FEEDS ON YOUR LOVE, BELOVED,
			AND AS LONG AS YOU LIVE IT WILL BE IN YOUR
		ARMS WITHOUT LEAVING MINE.	ARMS WITHOUT LEAVING MINE.
		,	
		BY PABLO NERUDA	BY PABLO NERUDA

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.33/1.00**.

■ Trò chơi gỡ mìn

Jump to...

**\$**