St. Brendan's College Interim Reporting System

April 1996



Developed by
Peter Doyle
Simon Wagner
Lucas Wyte

PROGRESS LOG

7 March	Peter starts hand-drawn draft of Create procedure. Simon starts hand-drawn drafts of SortName and SortPent procedures. Lucas starts hand-drawn draft of main menu.
8 March	Peter completed Create; starts hand-drawn draft of Load procedure. Simon completed Sort's; starts hand-drawn draft of OutSummy procedure.
OutAll	Lucas completed menu; starts hand-drawn draft of OutSlctd and procedures.
11 March	Peter completed Load; makes some changes to outputs in Create procedure. Simon completes OutSummy procedure. Lucas completed OutAll; completes OutSlctd with assistance of
Simon.	·
12 March	Peter starts Delta draft of Load procedure. Simon starts Delta drafts of SortName and SortPcnt procedures. Lucas starts Delta draft of main menu and entry of global variables.
14 March	Peter completed Load; starts Delta draft of Create procedure. Simon continuing drafts of SortName and SortPcnt procedures. Lucas completed menu; starts Delta drafts of OutSlctd procedure.
18 March	Peter, on consultation with group, makes changes to Create procedure - changing role of procedure to that of an Append procedure. Simon completed Sort's; starts Delta draft of OutSummy procedure. Lucas continuing Delta draft of OutSlctd procedure.
19 March	Peter edits Load procedure in conforming with new Append procedure. Simon continuing Delta draft of OutSummy procedure. Lucas completed OutSlctd; starts Delta draft of OutAll procedure.
20 March	Peter edits Load procedure to load as part of the main program rather than as a user-selectable procedure. Simon continuing OutSummy procedure. Lucas completes OutAll procedure.
21 March	Peter starts Delta drafts of TchFile and SubjFile procedures. Simon completes OutSummy procedure. Lucas enters test data into database; edits Out' procedures to suit data.

25 March Peter adds TchFile and SubjFile procedures to main menu; begins testing of outputs with new procedures producing favourable results.

Simon begins testing of OutSummy procedure. Lucas begins initial coding and testing of database.

27 March Peter continues testing of procedures and making necessary changes.

Simon continues testing of procedures, concentrating on user-proofing.

Lucas continues testing of procedures, making necessary changes

while concentrating on user-friendliness and layout.

28 March Most procedures operational; minor bugs being discussed by group in

order to reach a solution.

16 April Simon returns from holidays and discovers solution to OutSummy

spacing bug; edits procedure accordingly.

Peter returns from holidays and discovers solution to variable problem

in Append and Load procedures; edits procedures accordingly.

Lucas returns from holidays and discovers solution to text file storage

problem; edits necessary procedures accordingly.

17 April Simon puts finishing touches on SortName and SortPent procedures;

begins final testing.

Peter puts finishing touches on Append and Load procedures; begins

final testing.

Lucas puts finishing touches on Out' procedures; begins final testing

and coding.

19 April System fully operational, coded and ready for printing of

documentation.



ST. BRENDAN'S COLLEGE

MARY'S MOUNT, YEPPOON. 4703. YEPPOON Q 4703

Student's Name: L	iam	DAY
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Semester: TWO, 1995

Year Level: 11

Subject:

I. P. T.

Teacher's Name: Mr. HAMILTON

OVERALL LEVEL OF ACHIEVEMENT

CRITERIA	•						
	KNOWLEDGE	&	SIMPLE	FAMILIAR			
	APPLICATIONS						
	SYNTHESIS,	C	COMMUNIC	CATION			
	λΝλΤ. ΨΩΤΩ	2	: EX77X T T T 7	NT ON			

	Good	Satisfactory	Needs Improvement
Attitude			
Conduct			
Work Presented			
Progress			

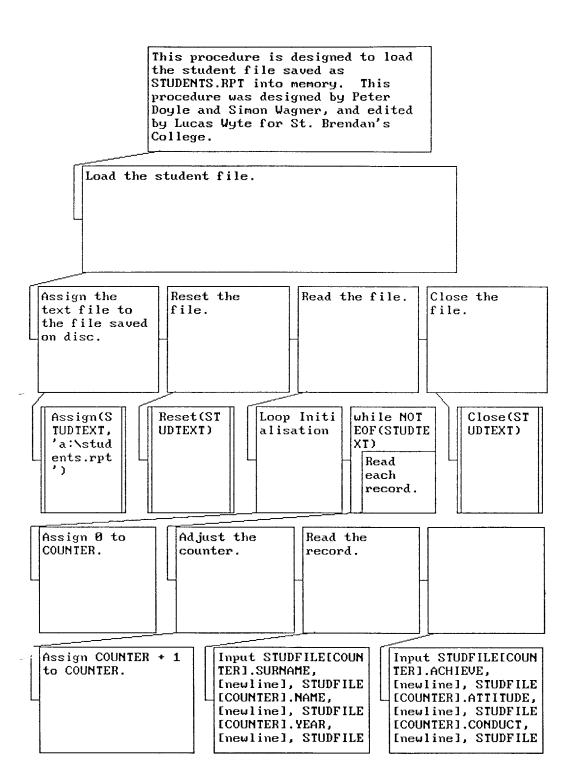
Comment:		7
·		
Teacher:	Pastoral Carer Mr. CO	NN

This program is designed as an interim reporting system which will advise parents of students performance in a particular subject. The reports will be printed on preprinted stationery. This menu was designed by Lucas Begin the menu program, using pre-tested iteration. Loop Initialisation while SELECTION <> '7' Output the menu, prompt the user to make a selection and run the corresponding procedure. Output Load the Select Clear Assign User-pro '0' to S the school the of menu, the corr ELECTION screen. files. menu. assignin espondin g proced \mathbf{g} readkey ure from to SELEC the TION and input Cl Load Load Load Ass the the the ign ea rSstud subj teac rea cr ent ect. her dke file file file ee y n (unti) 1 SE 0 0 0 u u u S t t t s i p p p u u u \mathfrak{g} t t t n r

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Identifiers used in program REPORTER (User Brendans 1 May 1996)
Type declarations (2)
  Local STR25 = string[25];
  Local STUDENT = record
         SURNAME:STR25
         NAME:STR25
         YEAR: integer single
         SUBJCODE: integer single
         TEACHCODE: integer single
         ACHIEVE: character
         PERCENT: integer single
         ATTITUDE: character
         CONDUCT: character
         PROGRESS: character
      end: record
Variable declarations (6)
```

Local SELECTION : character; Local COUNTER : integer single;

Local STUDFILE: array[1..30] of STUDENT;

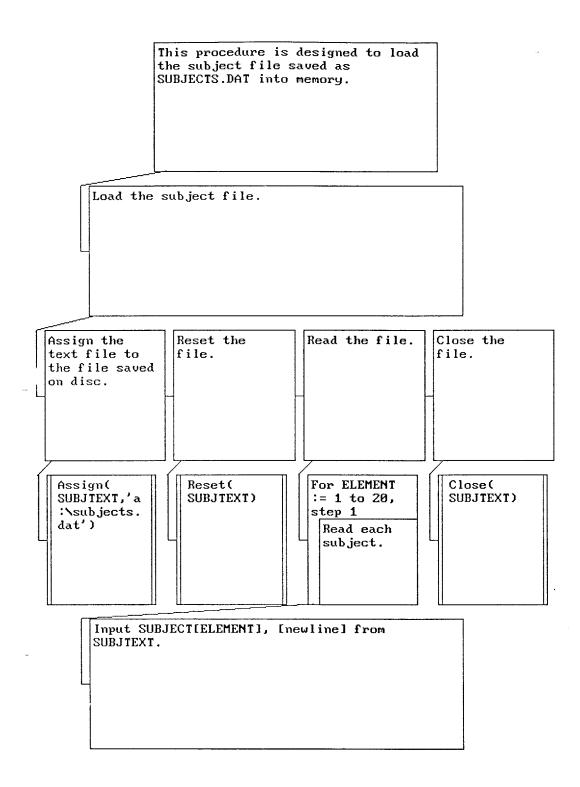


Identifiers used in procedure LOADSTUD (User Brendans 1 May 1996) Variable declarations (3)

Global STUDTEXT : textfile;

Global STUDFILE : array[1..30] of STUDENT;

Global COUNTER: integer single;



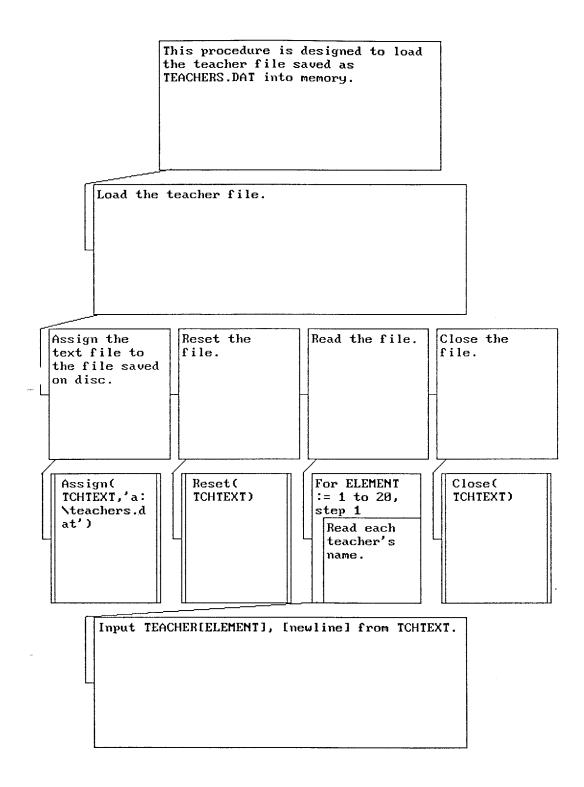
Identifiers used in procedure LOADSUBJ (User Brendans 1 May 1996) Variable declarations (6)

Global STUDTEXT : textfile;

Global STUDFILE: array[1..30] of STUDENT;

Global COUNTER: integer single; Local SUBJTEXT: textfile; Local ELEMENT: integer single;

Global SUBJECT: array[1..20] of STR25;



Identifiers used in procedure LOADTCH (User Brendans 1 May 1996) Variable declarations (8)

Global STUDTEXT : textfile;

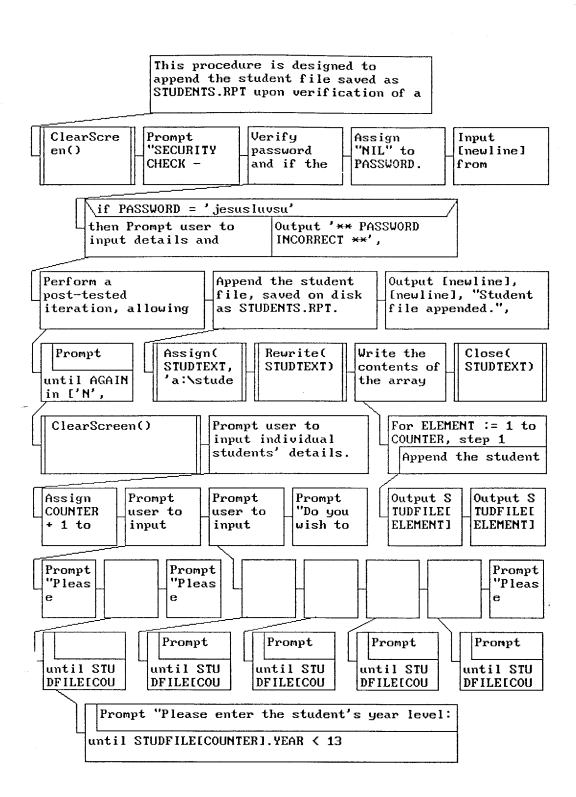
Global STUDFILE: array[1..30] of STUDENT; Global COUNTER: integer single; Local SUBJTEXT: textfile;

Local ELEMENT : integer single;

Global SUBJECT: array[1..20] of STR25;

Local TCHTEXT : textfile;

Global TEACHER: array[1..20] of STR25;



Identifiers used in procedure APPEND (User Brendans 1 May 1996) Variable declarations (6)

Local PASSWORD : string[10];

Global COUNTER: integer single;
Global STUDFILE: array[1..30] of STUDENT;

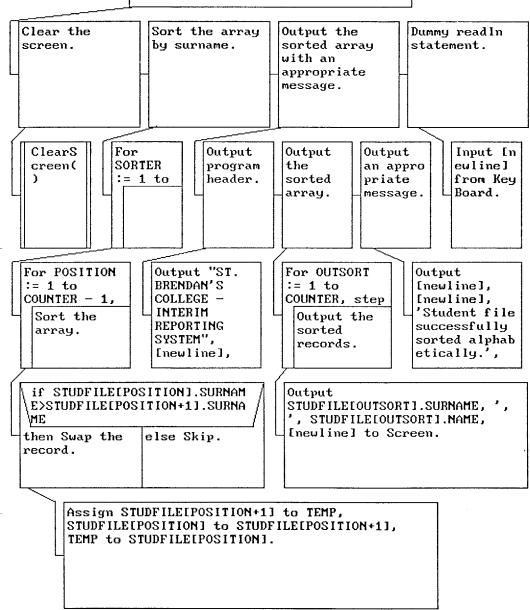
Local AGAIN : character; Global STUDTEXT : textfile; Local ELEMENT : integer single;

the student array by percentage, by working in pairs - comparing adjacent pairs and swapping them if necessary. This procedure was designed by Simon Wagner for St. Brendan's College. Clear the Sort the array Output the Dummy readIn screen. by percentage. sorted array statement. with an appropriate message. For Output Output Input [n ClearS Output creen(SORTER program the an appro ewline] := 1 to from Key header. sorted priate Board. array. message. For POSITION Output "ST. For OUTSORT Output := 1 toBRENDAN'S := 1 to [newline], COUNTER - 1, COLLEGE -COUNTER, step [newline], INTERIM 'Student file Sort the Output the REPORTING successfully array. sorted SYSTEM", sorted by records. [newline], percentage.', if STUDFILE [POSITION]. PERCEN Output STUDFILECOUTSORTI.SURNAME, ',
', STUDFILECOUTSORTI.NAME, ' T<STUDFILE(POSITION+1).PERCE then Swap the else Skip. STUDFILE COUTSORT 1. PERCENT. record. [newline] to Screen. Assign STUDFILE(POSITION+1) to TEMP, STUDFILE [POSITION] to STUDFILE [POSITION+1], TEMP to STUDFILE [POSITION].

This procedure is designed to sort

```
Identifiers used in procedure SORTPCNT (User Brendans 1 May 1996)
Type declarations (1)
  Global STUDENT = record
         SURNAME:STR25
        NAME:STR25
         YEAR:STR2
         SUBJCODE:STR2
         TEACHCODE:STR2
         ACHIEVE:STR3
         PERCENT: integer single
         ATTITUDE: character
         CONDUCT: character
         PROGRESS: character
      end: record
Variable declarations (6)
  Global STUDFILE: array[1..30] of STUDENT;
  Local SORTER: integer single;
   Global COUNTER: integer single;
  Local POSITION: integer single;
```

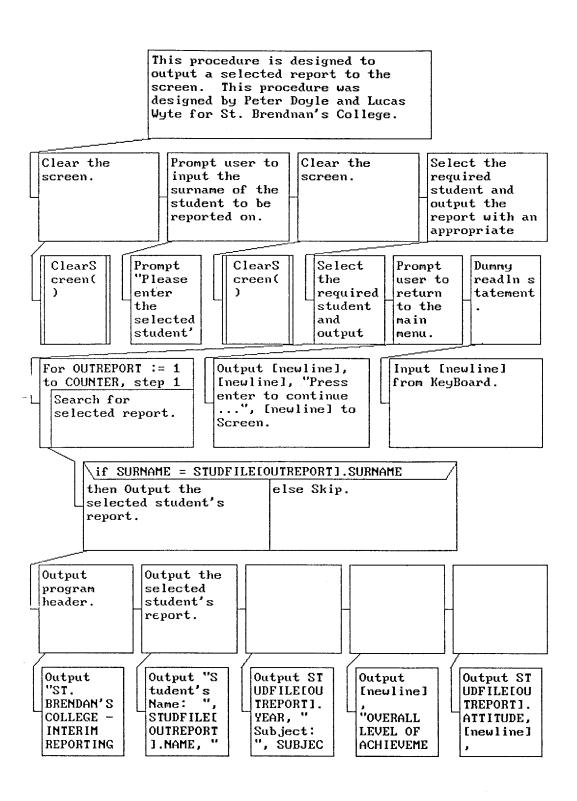
This procedure is designed to sort the student array alphabetically by name, by working in pairs — comparing adjacent pairs and swapping them if necessary. This procedure was designed by Simon Wagner for St. Brendan's College.



```
Identifiers used in procedure SORTNAME (User Brendans 1 May 1996)
Type declarations (1)
  Global STUDENT = record
         SURNAME: STR25
        NAME:STR25
         YEAR:STR2
         SUBJCODE:STR2
         TEACHCODE:STR2
         ACHIEVE:STR3
         PERCENT: integer single
         ATTITUDE: character
         CONDUCT: character
         PROGRESS: character
      end: record
Variable declarations (6)
   Global STUDFILE: array[1..30] of STUDENT;
  Local SORTER: integer single;
   Global COUNTER: integer single;
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Local POSITION : integer single;

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Identifiers used in procedure OcTSLCTD (User Brendans 1 May 1996)
Type declarations (1)
Global STR25 = string[25];
Variable declarations (6)
Global STUDFILE : array[1..30] of STUDENT;
Local SURNAME : STR25;
Global SUBJECT : array[1..20] of STR25;
```

Global TEACHER : array[1..20] of STR25; Local OUTREPORT : integer single;

Global COUNTER: integer single;

This procedure is designed to output all student reports to the printer on LPT1. This procedure was designed by Peter Doyle and Lucas Wyte for St. Brendan's College. Clear the Assign Output all Close the Output, output of reports to variable with an screen. LST. all reports the printer appropriate to the on LPT1. message, printer. that the printing of all reports to the printer is Output Rewrit For EL Clos Clea Assign Dummy LST va e the EMENT readIn rScr. that e(LST) een(riable variab := 1 all re statem to COU ports to pri ent.) le nter LST. have c Outpu omplet on LPT1. ed pri each nting repor with Outp Re Outp Inpu As si иt ut [t [n wr all it ewli gn newl (L e(each inel ne I ST LS repo , In from T) rt ewli KeyB ĹP to ne], oard T1 the "All prin repo Output "S Output ST Output Output ST Output tudent's UDFILETEL [newline] UDFILETEL [newline] Name: " EMENT1.YE EMENTI.AT "OVERALL STUDFILE AR, TITUDE, [newline] ELEMENT]. NAME, " " Subject: LEVEL OF [newline] , SUBJEC ACHIEVEME [newline] NT ... " "Conduct: , STUDFIL TISTUDFIL ", STUDFI ELELEMENT ELELEMENT STUDFILE [newline] 1.SURNAME 1.SUBJCOD ELEMENT1. LETELEMEN to LST.

Identifiers used in procedure OUTALL (User Brendans 1 May 1996) Variable declarations (7)

Local LST: textfile:

Local COUNT: integer single; Global COUNTER: integer single;

Global TEACHER: array[1..15] of STR25; Global SUBJECT: array[1..15] of STR25; Global STUDFILE: array[1..30] of STUDENT;

Local ELEMENT : integer single;

output a subject summary to the printer. This procedure was designed by Simon Wagner for St. Brendan's College. Input Clear the Prompt Output the Output 'Please subject [newline], [newline] screen, enter the summary to [newline], from assign output of KeyBoard. required the printer "Subject year level: on LPT1. the subject summary ClearS Assign Output [Output Output Close(newline] program LST) creen(output the) of the , [newli header sub ject subject and nel, summary summary "Sending column h to the Output ' Rewrit Output Output ' For Assign SURNAME' CONDUCT' e(LST) program **ELEMENT** (LST, LPT1') header. 'NAME' 'PROGR Ouput i ESS', In 'ACHIE ndividu VE', 'PE ewline], if YEAR = STUDFIL Output "ST. Output BRENDAN'S COLLEGE -SUBJECT[SUBJCODE], E [ELEMENT]. YEAR INTERIM REPORTING Teacher: ", then else TEACHERITEACHCODE 1, SYSTEM", [newline], Continue. Skip. [newline], "Subject [newline], if SUBJCODE = STUDFILE(ELEMENT).SUBJCODE then Continue. else Skip. if TEACHCODE = STUDFILE[ELEMENT].TEACHCODE then Output the student else Skip. summaries for the required year level, Output Output STUDFILE [ELEMENT].SURNAME, STUDFILECELEMENTI.ACHIEVE, STUDFILE (ELEMENT). NAME to LST. STUDFILECELEMENTI.PERCENT, STUDFILECELEMENT].ATTITUDE, STUDFILE (ELEMENT). CONDUCT,

This procedure is designed to

Identifiers used in procedure OUTSUMMY (User Breadans 1 May 1996) Variable declarations (9)

Local LST : textfile; Local YEAR : integer single; Local SUBJCODE : integer single; Local TEACHCODE : integer single:

Global SUBJECT: array[1..20] of STR25; Global TEACHER: array[1..20] of STR25;

Local ELEMENT : integer single; Global COUNTER: integer single;

Global STUDFILE: array[1..30] of STUDENT;

```
program REPORTER;
{This program is designed as an interim reporting system
which will advise parents of students performance in a
particular subject. The reports will be printed on
preprinted stationery. This menu was designed by Lucas
Wyte. This program was designed by Peter Doyle, Simon
Wagner and Lucas Wyte for St. Brendan's College.
uses Crt;
type
 STR25 = string[25];
 STUDENT = record
     SURNAME:STR25;
     NAME:STR25;
     YEAR integer,
     SUBJCODE:integer;
     TEACHCODE:integer;
     ACHIEVE:char;
     PERCENT:integer;
     ATTITUDE:char;
     CONDUCT: char;
     PROGRESS:char;
   end {record};
var
 SELECTION: char;
 COUNTER: integer;
 STUDFILE: array[1..30] of STUDENT;
 STUDTEXT: text;
 TEACHER: array[1..20] of STR25;
  SUBJECT: array[1..20] of STR25;
  procedure SORTPCNT;
  This procedure is designed to sort the student array by
 percentage, by working in pairs - comparing adjacent pairs
  and swapping them if necessary. This procedure was designed
 by Simon Wagner for St. Brendan's College.}
 var
   SORTER: integer;
   POSITION: integer;
   TEMP: STUDENT;
   OUTSORT: integer;
  begin {procedure SORTPCNT}
   ClrScr;
   for SORTER := 1 to COUNTER do
     for POSITION := 1 to COUNTER - 1 do
STUDFILE[POSITION].PERCENT<STUDFILE[POSITION+1].PERCENT then
        begin
          TEMP := STUDFILE[POSITION+1];
          STUDFILE[POSITION+1] := STUDFILE[POSITION];
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```
STUDFILE[POSITION] := TEMP
        end
      else
        {Skip.};
   writeln('ST. BRENDAN"S COLLEGE - INTERIM REPORTING SYSTEM');
   writeln;
   writeln('Student file:');
   writeln:
   for OUTSORT := 1 to COUNTER do
    begin
      write(STUDFILE[OUTSORT].SURNAME);
      write(', ');
      write(STUDFILE[OUTSORT].NAME);
      write(' .... ');
      writeln(STUDFILE[OUTSORT].PERCENT)
    end;
   writeln;
   writeln:
   writeln('Student file successfully sorted by percentage.');
   writeln;
   writeln('Press enter to continue ...');
   readln
 end; {procedure SORTPCNT}
 procedure SORTNAME;
 {This procedure is designed to sort the student array
 alphabetically by name, by working in pairs - comparing
 adjacent pairs and swapping them if necessary. This
 procedure was designed by Simon Wagner for St. Brendan's
 College.
 var
   SORTER: integer;
   POSITION: integer;
   TEMP: STUDENT;
   OUTSORT: integer;
 begin {procedure SORTNAME}
   ClrScr;
   for SORTER := 1 to COUNTER do
    for POSITION := 1 to COUNTER - 1 do
      if
STUDFILE[POSITION].SURNAME>STUDFILE[POSITION+1].SURNAME then
        begin
          TEMP := STUDFILE[POSITION+1];
          STUDFILE[POSITION+1] := STUDFILE[POSITION];
          STUDFILE[POSITION] := TEMP
        end
      else
        {Skip.};
```

```
writeln('ST. BRENDAN"S COLLEGE - INTERIM REPORTING SYSTEM');
   writeln;
   writeln('Student file:');
   writeln:
   for OUTSORT := 1 to COUNTER do
       write(STUDFILE[OUTSORT] SURNAME);
       write(', ');
       writeln(STUDFILE[OUTSORT].NAME)
     end;
   writeln;
   writeln;
   writeln('Student file successfully sorted alphabetically.');
   writeln;
   writeln('Press enter to continue ...');
   readln
 end; {procedure SORTNAME}
 procedure OUTSLCTD;
 This procedure is designed to output a selected report to
 the screen. This procedure was designed by Peter Doyle and
 Lucas Wyte for St. Brendnan's College.}
 var
   SURNAME: STR25;
   OUTREPORT: integer;
 begin {procedure OUTSLCTD}
   ClrScr:
   write('Please enter the selected student's surname: ');
   readln(SURNAME);
   ClrScr;
   for OUTREPORT := 1 to COUNTER do
     if SURNAME = STUDFILE[OUTREPORT].SURNAME then
        writeln('ST. BRENDAN"S COLLEGE - INTERIM REPORTING
SYSTEM');
        writeln;
        writeln('Selected student report:');
        writeln:
        writeln:
        write('Student"s Name: ');
        write(STUDFILE[OUTREPORT].NAME);
        write(' ');
        writeln(STUDFILE[OUTREPORT].SURNAME);
        write('Year Level: ');
        write(STUDFILE[OUTREPORT].YEAR);
                    Subject: ');
        writeln(SUBJECT[STUDFILE[OUTREPORT].SUBJCODE]);
        write('Teacher: ');
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writeln(TEACHER[STUDFILE[OUTREPORT].TEACHCODE]);
      writeln;
      write('OVERALL LEVEL OF ACHIEVEMENT ... ');
      writeln(STUDFILE[OUTREPORT].ACHIEVE);
      writeln;
      write('Attitude: ');
      writeln(STUDFILE[OUTREPORT].ATTITUDE);
      write('Conduct: ');
      writeln(STUDFILE[OUTREPORT].CONDUCT);
      write('Progress: ');
      writeln(STUDFILE[OUTREPORT].PROGRESS)
     end
   else
     {Skip.};
 writeln;
 writeln;
 writeln('Press enter to continue ...');
end; {procedure OUTSLCTD}
procedure OUTALL;
This procedure is designed to output all student reports to
the printer on LPT1. This procedure was designed by Peter
Doyle and Lucas Wyte for St. Brendan's College.}
 LST: text;
 COUNT: integer;
 ELEMENT: integer,
begin {procedure OUTALL}
 ClrScr;
 Assign(LST,'LPT1');
 Rewrite(LST);
 for ELEMENT := 1 to COUNTER do
   begin
     write(LST,'Student's Name: ');
     write(LST,STUDFILE[ELEMENT].NAME);
     write(LST,'');
     writeln(LST,STUDFILE[ELEMENT].SURNAME);
     write(LST,'Year Level: ');
     write(LST,STUDFILE[ELEMENT].YEAR);
     write(LST.'
                    Subject: ');
     writeln(LST, SUBJECT[STUDFILE[ELEMENT].SUBJCODE]);
     write(LST, 'Teacher: ');
     writeln(LST, TEACHER[STUDFILE[ELEMENT] TEACHCODE]);
     writeln(LST);
     wiite(LST, 'OVERALL LEVEL OF ACHIEVEMENT ... ');
     writeln(LST,STUDFILE[ELEMENT].ACHIEVE);
     writeln(LST);
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```
writeln(LST,STUDFILE[ELEMENT].ATTITUDE);
      write(LST,'Conduct: ');
      writeln(LST,STUDFILE[ELEMENT].CONDUCT);
      write(LST,'Progress: ');
      writeln(LST,STUDFILE[ELEMENT].PROGRESS);
      writeln(LST);
      writeln(LST),
      writeln(LST);
      writeln(LST)
     end;
   Close(LST);
   writeln;
   writeln;
   writeln('All reports completed printing.');
   writeln;
   writeln('Press enter to continue ...');
   readln
 end; {procedure OUTALL}
 procedure OUTSUMMY;
 {This procedure is designed to output a subject summary to
 the printer. This procedure was designed by Simon Wagner
 for St. Brendan's College.
 var
   LST: text;
   YEAR: integer;
   SUBJCODE: integer;
   TEACHCODE: integer;
   ELEMENT: integer;
 begin {procedure OUTSUMMY}
   ClrScr;
   Assign(LST,'LPT1');
   Rewrite(LST);
   write('Please enter the required year level: ');
   readln(YEAR);
   write('Please enter your subject code: ');
   readln(SUBJCODE);
   write('Please enter your teacher code: ');
   readln(TEACHCODE);
   writeln;
   writeln;
   writeln('Sending subject summary to printer on LPT1 ...');
   writeln(LST, 'ST. BRENDAN"S COLLEGE - INTERIM REPORTING
SYSTEM');
   writeln(LST);
   write(LST, 'Subject Summary - Year ');
   write(LST, YEAR);
```

write(LST,'Attitude: ');

```
write(LST,'');
 write(LST,SUBJECT[SUBJCODE]);
 write(LST,' Teacher: ');
 writeln(LST,TEACHER[TEACHCODE]);
 writeln(LST);
 writeln(LST);
 write(LST, 'SURNAME': 11);
 write(LST,'NAME':10);
 write(LST,'ACHIEVE':10);
 write(LST, 'PERCENT': 10);
 write(LST,'ATTITUDE':10);
 write(LST, 'CONDUCT': 10);
 writeln(LST,'PROGRESS':10);
 write(LST,'-----');
 writeln(LST,'----');
 for ELEMENT := 1 to COUNTER do
   if YEAR = STUDFILE[ELEMENT]. YEAR then
    if SUBJCODE = STUDFILE[ELEMENT].SUBJCODE then
      if TEACHCODE = STUDFILE[ELEMENT]. TEACHCODE then
         write(LST,STUDFILE[ELEMENT].SURNAME:11);
         write(LST,STUDFILE[ELEMENT].NAME:10);
         write(LST,STUDFILE[ELEMENT].ACHIEVE:10);
         write(LST,STUDFILE[ELEMENT].PERCENT:10);
         write(LST,STUDFILE[ELEMENT].ATTITUDE:10);
         write(LST,STUDFILE[ELEMENT].CONDUCT:10);
         writeln(LST,STUDFILE[ELEMENT].PROGRESS:10)
       end
      else
        {Skip.}
    else
      {Skip.}
   else
    {Skip.};
 Close(LST);
 writeln;
 writeln;
 writeln('Subject summary completed printing.');
 writeln('Press enter to continue ...');
 readln
end; {procedure OUTSUMMY}
procedure APPEND;
This procedure is designed to append the student file saved
as STUDENTS.RPT upon verification of a password. This
procedure was designed by Peter Doyle for St. Brendan's
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College.

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var
 PASSWORD : string[10];
 AGAIN: char;
 ELEMENT: integer;
begin {procedure APPEND}
 ClrScr;
 write('SECURITY CHECK - Please enter the current password: ');
 readln(PASSWORD);
 if PASSWORD = 'jesusluvsu' then
   begin
     repeat
       ClrScr;
       COUNTER := COUNTER + 1;
       write('Please enter the student's surname: ');
       readln(STUDFILE[COUNTER].SURNAME);
       write('Please enter the student's first name: ');
       readln(STUDFILE[COUNTER].NAME);
       repeat
         repeat
          write('Please enter the student's year level: ');
          readln(STUDFILE[COUNTER].YEAR)
         until STUDFILE[COUNTER]. YEAR < 13
       until STUDFILE[COUNTER]. YEAR > 7;
       write('Please enter your subject code: ');
       readln(STUDFILE[COUNTER].SUBJCODE);
       write('Please enter your teacher code: ');
       readln(STUDFILE[COUNTER].TEACHCODE);
         write('Please enter the student's level of achievement (A-E): ');
         readln(STUDFILE[COUNTER].ACHIEVE)
       until STUDFILE[COUNTER]. ACHIEVE in ['A', 'B', 'C', 'D', 'E'];
         write('Please enter a mark for the student's attitude (G, S, N): ');
         readln(STUDFILE[COUNTER].ATTITUDE)
       until STUDFILE[COUNTER].ATTITUDE in ['G', 'S', 'N'];
       repeat
         write('Please enter a mark for the student's conduct (G, S, N): ');
         readln(STUDFILE[COUNTER].CONDUCT)
       until STUDFILE[COUNTER].CONDUCT in ['G', 'S', 'N'];
       repeat
         write('Please enter a mark for the student's progress (G, S, N): ');
         readln(STUDFILE[COUNTER].PROGRESS)
       until STUDFILE[COUNTER].PROGRESS in ['G', 'S', 'N'];
       write('Please enter the student's overall percentage: ');
       readln(STUDFILE[COUNTER].PERCENT);
       write('Do you wish to enter another student's details (Y/N)? ');
       readln(ACAEV)
     until AGAIN in ['N', 'n'];
     Assign(STUDTEXT, 'a:\students.rpt');
```

```
Rewrite(STUDTEXT):
    for ELEMENT := 1 to COUNTER do
      begin
       writeln(STUDTEXT, STUDFILE[ELEMENT]. SURNAME);
       writeln(STUDTEXT, STUDFILE[ELEMENT]. NAME);
       writeln(STUDTEXT,STUDFILE[ELEMENT].YEAR);
       writeln(STUDTEXT, STUDFILE[ELEMENT]. SUBJCODE);
       writeln(STUDTEXT, STUDFILE[ELEMENT] TEACHCODE);
       writeln(STUDTEXT, STUDFILE[ELEMENT]. ACHIEVE);
       writeln(STUDTEXT, STUDFILE[ELEMENT] ATTITUDE),
       writeln(STUDTEXT, STUDFILE[ELEMENT]. CONDUCT);
       writeln(STUDTEXT, STUDFILE[ELEMENT].PROGRESS);
       writeln(STUDTEXT,STUDFILE[ELEMENT].PERCENT)
      end;
    Close(STUDTEXT);
    writeln;
    writeln:
    writeln('Student file appended.');
    writeln:
    write('Press enter to continue ...')
   end
 else
   begin
    writeln('** PASSWORD INCORRECT **');
    writeln:
    writeln('Press enter to return to the main menu ...')
   end;
 PASSWORD := 'NIL';
 readln
end; {procedure APPEND}
procedure LOADSTUD;
This procedure is designed to load the student file saved as
STUDENTS.RPT into memory. This procedure was designed by
Peter Doyle and Simon Wagner, and edited by Lucas Wyte for
St. Brendan's College.
begin {procedure LOADSTUD}
 Assign(STUDTEXT, 'a:\students.rpt');
 Reset(STUDTEXT);
 COUNTER := 0;
 while NOT EOF(STUDTEXT) do
   begin
    COUNTER := COUNTER + 1;
    readln(STUDTEXT, STUDFILE[COUNTER]. SURNAME);
    readln(STUDTEXT, STUDFILE[COUNTER]. NAME);
    readln(STUDTEXT, STUDFILE[COUNTER] YEAR);
     readln(STUDTEXT, STUDFILE[COUNTER]. SUBJCODE);
     readln(STUDTEXT, STUDFILE[COUNTER], TEACHCODE);
```

```
readln(STUDTEXT, STUDFILE[COUNTER]. ACHIEVE);
      readln(STUDTEXT, STUDFILE [COUNTER]. ATTITUDE);
      readln(STUDTEXT,STUDFILE[COUNTER].CONDUCT);
      readln(STUDTEXT,STUDFILE[COUNTER].PROGRESS);
      readln(STUDTEXT,STUDFILE[COUNTER].PERCENT)
  Close(STUDTEXT)
 end: {procedure LOADSTUD}
 procedure LOADSUBJ;
 {This procedure is designed to load the subject file saved as
 SUBJECTS.DAT into memory.}
 var
   SUBJTEXT: text;
   ELEMENT : integer;
 begin {procedure LOADSUBJ}
   Assign(SUBJTEXT, 'a:\subjects.dat');
  Reset(SUBJTEXT);
  for ELEMENT := 1 to 20 do
    readln(SUBJTEXT,SUBJECT[ELEMENT]);
   Close(SUBJTEXT)
 end; {procedure LOADSUBJ}
 procedure LOADTCH;
 {This procedure is designed to load the teacher file saved as
 TEACHERS.DAT into memory.}
   SUBJTEXT: text;
   ELEMENT: integer,
   TCHTEXT: text;
 begin {procedure LOADTCH}
   Assign(TCHTEXT, 'a:\teachers.dat');
   Reset(TCHTEXT);
   for ELEMENT := 1 to 20 do
    readln(TCHTEXT,TEACHER[ELEMENT]);
   Close(TCHTEXT)
 end; {procedure LOADTCH}
begin {program REPORTER}
 SELECTION := '0';
 while SELECTION <> '7' do
   begin
    ClrScr;
    LOADSTUD;
    LOADSUBJ;
    LOADTCH;
    writeln('ST. BRENDAN"S COLLEGE - INTERIM REPORTING SYSTEM');
```

```
writeln;
     writeln('MAIN MENU');
     writeln;
     writeln('1. Append Student File');
     writeln('2. Sort by Percentage');
     writeln('3. Sort by Name');
     writeln('4. Output a Selected Report to Screen');
     writeln('5. Output All Reports to Printer');
     writeln('6. Output Subject Summary to Printer');
     writeln('7. Quit');
     writeln;
     writeln;
     write('Please make your selection ...');
     repeat
       SELECTION := readkey
     until SELECTION in ['1', '2', '3', '4', '5', '6', '7'];
     case SELECTION of
       '1':
         APPEND;
       '2' :
         SORTPCNT;
       131:
         SORTNAME;
       '4':
         OUTSLCTD;
         OUTALL;
       '6' :
         OUTSUMMY;
       '7' :
         {Quit.};
       else
         {Skip.}
     end {Case}
   end
end. {program REPORTER}
```

MAIN MENU

- 1. Append Student File
- 2. Sort by Percentage
- 3. Sort by Name
- Output a Selected Report to Screen
 Output All Reports to Printer
- 6. Output Subject Summary to Printer
- Quit

Please make your selection ...

Student file:

Wyte, Lucas 100
Hamilton, Ron 98
Harth, Christopher 88
Ware, Andrew 82
Wannai, Isaac 74
Wagner, Simon 59
Taylor, Frank 56
Porter, Ben 38
Sommerville, Donald 33
Doyle, Peter 2

Student file successfully sorted by percentage.

Press enter to continue ...

ST. BRENDAN'S COLLEGE - INTERIM REPORTING SYSTEM

Student file:

Doyle, Peter
Hamilton, Ron
Harth, Christopher
Porter, Ben
Sommerville, Donald
Taylor, Frank
Wagner, Simon
Wannai, Isaac
Te, Andrew
Lie, Lucas

Student file successfully sorted alphabetically.

Press enter to continue ...

Selected student report:

Student's Name: Ron Hamilton

Year Level: 10 Teacher: Mr I. Bradshaw Subject: Accounting

OVERALL LEVEL OF ACHIEVEMENT ... A

Attitude: G Conduct: S Progress: N

Press enter to continue ...

Student's Name: Ron Hamilton

Year Level: 10 Subject: Accounting

Teacher: Mr I. Bradshaw

OVERALL LEVEL OF ACHIEVEMENT ... A

Attitude: G Conduct: S Progress: N

Student's Name: Andrew Ware

Year Level: 10 Subject: Accounting

Teacher: Mr I. Bradshaw

OVERALL LEVEL OF ACHIEVEMENT ... C

Attitude: S Conduct: N Progress: S

Student's Name: Ben Porter

Year Level: 10 Subject: Accounting

Teacher: Mr I. Bradshaw

OVERALL LEVEL OF ACHIEVEMENT ... D

Attitude: S Conduct: S Progress: N

Soudent's Name: Frank Taylor

Year Level: 10 Subject: Accounting

Teacher: Mr I. Bradshaw

OVERALL LEVEL OF ACHIEVEMENT ... D

Attitude: S Conduct: G Progress: G

Student's Name: Donald Sommerville

Year Level: 12 Subject: Accounting

Teacher: Mr I. Bradshaw

OVERALL LEVEL OF ACHIEVEMENT ... D

Attitude: S Conduct: S Progress: N Student's Name: Lucas Wyte

Year Level: 12 Subject: Biology

Teacher: Mr W. Laverty

OVERALL LEVEL OF ACHIEVEMENT ... A

Attitude: G Conduct: G Progress: G

Student's Name: Peter Doyle

Year Level: 8 Subject: Legal Studies

Teacher: Mr B. McGregor

OVERALL LEVEL OF ACHIEVEMENT ... E

Attitude: N Conduct: S Progress: N

Student's Name: Christopher Harth

Year Level: 9 Subject: Legal Studies

Teacher: Mr R. Hamilton

OVERALL LEVEL OF ACHIEVEMENT ... C

Attitude: S Conduct: S Progress: G

ident's Name: Isaac Wannai

rear Level: 10 Subject: Communication

Teacher: Mr S. Johnson

OVERALL LEVEL OF ACHIEVEMENT ... B

Attitude: S Conduct: N Progress: G

Student's Name: Simon Wagner

Year Level: 10 Subject: Economics

Teacher: Mr J. Ingram

OVERALL LEVEL OF ACHIEVEMENT ... D

Attitude: S Conduct: S Progress: N

Subject Summary - Year 10 Accounting Teacher: Mr I. Bradshaw

SURNAME	NAME	ACHIEVE	PERCENT	ATTITUDE	CONDUCT	PROGRESS
Hamilton	Ron	A	98	G	S	N
Ware	Andrew	С	82	S	N	S
Porter	Ben	D	38	S	S	N
Taylor	Frank	D	56	S	G	G