Create a data set called hw7.txt with the data below.

M100101 Armann
10 10 10 10 8 9
13 15 10
M100102 Ellery
8 10 7 6 10 1
7 12 15
M100103 Anna
7 5 10 4 10 10
12 9 11
M100104 Tomo
9 8 10 5 10 5
10 14 12
M100301 Glenn
9 6 11 13
2 4 6 5 9 10 10
M100302 Duc
14 12 10 12
9 10 10 8 10 10 10
M100303 Woo
14 15 12 9
8 7 9 10 5 9 10
M100304 Olson
10 10 12 11
5 10 7 9 8 10 10
M100305 Ma
12 15 14 10
10 10 10 10 9 10 9
M100306 Garcia
14 13 15 11
9 10 8 10 10 6 10

The first line (and every three lines after that) has a variable which start with M and has length 7. This is the ID for each student. The first 4 characters are for the course name. The next character is course section. The last two characters are unique for each student.

If the student is in section 1 then the next line of the data is quiz grades (out of 10) and the next line is homework grades (out of 15).

If the student is in section 3 then the next line of the data is homework grades (out of 15) and the next line is quiz grades (out of 10).

Using SAS, create two data sets from data above, one for section 1 and another one for section 3. Print the two data sets with appropriate labels and formats with all variable included.

```sas
/***Nhi_Vu**Reading_a_data***/

data HW7;
infile '\\Client\H$\Desktop\Math338\data\HW7.txt';
input  se 5 ID 6-7  @8 n $ ;
if se  = 1 then input #2 Quiz1-Quiz6 #3 HW1-HW3;
if se  = 3 then input #2 HW1-HW4 #3 Quiz1-Quiz7 ;
label  se="Section"
       ID= "ID student"
       n="Student Name";
run;

proc print data=HW7 label;
format ID z2.;
var se ID n HW1-HW4 Quiz1-Quiz7;
title "M100 for all sections";
run;
```

Obs	Section	ID student	Student Name	HW1	HW2	HW3	HW4	Quiz1	Quiz2	Quiz3	Quiz4	Quiz5	Quiz6	Quiz7
1	1	01	Armann	13	15	10	.	10	10	10	10	8	9	.
2	1	02	Ellery	7	12	15	.	8	10	7	6	10	1	.
3	1	03	Anna	12	9	11	.	7	5	10	4	10	10	.
4	1	04	Tomo	10	14	12	.	9	8	10	5	10	5	.
5	3	01	Glenn	9	6	11	13	2	4	6	5	9	10	10
6	3	02	Duc	14	12	10	12	9	10	10	8	10	10	10
7	3	03	Woo	14	15	12	9	8	7	9	10	5	9	10
8	3	04	Olson	10	10	12	11	5	10	7	9	8	10	10
9	3	05	Ma	12	15	14	10	10	10	10	10	9	10	9
10	3	06	Garcia	14	13	15	11	9	10	8	10	10	6	10

```
/***Nhi_Vu***Data_Set_1****/

data Section1;
infile '\\Client\H$\Desktop\Math338\data\HW7.txt';
file '\\Client\H$\Desktop\Math338\data\M100_Section1.txt';
input se 5 ID $6-7   @8 n $    /;
if se = 1 then do;
                  input  #2 Quiz1-Quiz6  #3 HW1-HW3 ;
                  output;
                  put #1 ID n #2 Quiz1-Quiz6 #3 HW1-HW3;
                  end;
                  drop se;


label ID= "ID student"
       n="Student Name";
run;

proc print data= Section1 label noobs;
title "M100 section 1";
run;
```
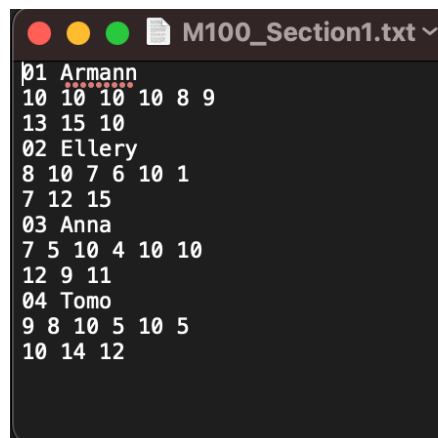
ID student	Student Name	Quiz1	Quiz2	Quiz3	Quiz4	Quiz5	Quiz6	HW1	HW2	HW3
01	Armann	10	10	10	10	8	9	13	15	10
02	Ellery	8	10	7	6	10	1	7	12	15
03	Anna	7	5	10	4	10	10	12	9	11
04	Tomo	9	8	10	5	10	5	10	14	12

M100_Section1.txt

```
01 Armann
10 10 10 10 8 9
13 15 10
02 Ellery
8 10 7 6 10 1
7 12 15
03 Anna
7 5 10 4 10 10
12 9 11
04 Tomo
9 8 10 5 10 5
10 14 12
```
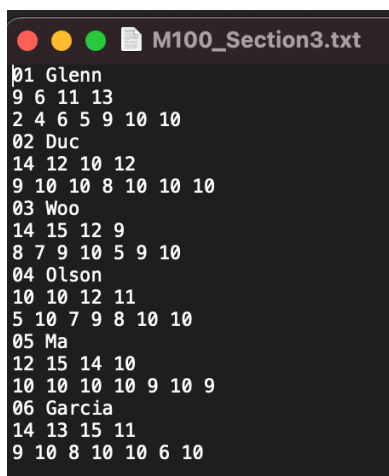
```
/***Nhi_Vu***Data_Set_2****/

data Section3;
infile '\\Client\H$\Desktop\Math338\data\HW7.txt';
file '\\Client\H$\Desktop\Math338\data\M100_Section3.txt';
input se 5 ID $6-7 @5  @8 n $ ;
if se = 3 then do;
                 input  #2 HW1-HW4  #3 Quiz1-Quiz7 ;
                 output;
                 put #1 ID n #2 HW1-HW4  #3 Quiz1-Quiz7;
                 end;
                 drop se;
label ID= "ID student"
      n="Student Name";
run;

proc print data= Section3 label noobs;
title "M100 section 3";
run;
```

ID student	Student Name	HW1	HW2	HW3	HW4	Quiz1	Quiz2	Quiz3	Quiz4	Quiz5	Quiz6	Quiz7
01	Glenn	9	6	11	13	2	4	6	5	9	10	10
02	Duc	14	12	10	12	9	10	10	8	10	10	10
03	Woo	14	15	12	9	8	7	9	10	5	9	10
04	Olson	10	10	12	11	5	10	7	9	8	10	10
05	Ma	12	15	14	10	10	10	10	10	9	10	9
06	Garcia	14	13	15	11	9	10	8	10	10	6	10


```
M100_Section3.txt

01 Glenn
9 6 11 13
2 4 6 5 9 10 10
02 Duc
14 12 10 12
9 10 10 8 10 10 10
03 Woo
14 15 12 9
8 7 9 10 5 9 10
04 Olson
10 10 12 11
5 10 7 9 8 10 10
05 Ma
12 15 14 10
10 10 10 10 9 10 9
06 Garcia
14 13 15 11
9 10 8 10 10 6 10
```