6 A music player stores music in a digital form and has a display which shows the track being played.

(a) Up to 16 characters can be displayed. Track titles longer than 16 characters will need to be trimmed as follows:

- Words must be removed from the end of the track title until the resulting title is less than 14 characters.
- When a word is removed, the space in front of that word is also removed.
- Three dots are added to the end of the last word displayed when one or more words have been removed.

The table below shows some examples:

Original title	**Display string**															
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
Bat out of Hull	**B**	**a**	**t**		**o**	**u**	**t**		**o**	**f**		**H**	**u**	**l**	**l**	
Bohemian Symphony	**B**	**o**	**h**	**e**	**m**	**i**	**a**	**n**	**.**	**.**	**.**					
Paperbook Writer	**P**	**a**	**p**	**e**	**r**	**b**	**o**	**o**	**k**		**W**	**r**	**i**	**t**	**e**	**r**
Chris Sings the Blues	**C**	**h**	**r**	**i**	**s**		**S**	**i**	**n**	**g**	**s**	**.**	**.**	**.**		
Green Home Alabama	**G**	**r**	**e**	**e**	**n**		**H**	**o**	**m**	**e**	**.**	**.**	**.**			

A function `Trim()` will:

- take a string representing the original title
- return the string to be displayed.

Assume:

- Words in the original title are separated by a single space character.
- There are no spaces before the first word or after the last word of the original title.
- The first word of the original title is less than 14 characters.

Write pseudocode for the function `Trim()`.

[7]

(b) Music is stored as a sequence of digital samples.

Each digital sample is a denary value in the range 0 to 99999999 (8 digits).

The samples are to be stored in a text file. Each sample is converted to a numeric string and 32 samples are concatenated (joined) to form a single line of the text file.

Each numeric string is 8 characters in length; leading '0' characters are added as required.

Example:

Sample	**Denary value**	**String**
1	`456`	`"00000456"`
2	`48`	`"00000048"`
3	`37652`	`"00037652"`
32	`673`	`"00000673"`

The example samples will be stored in the text file as a single line:

`"000004560000004800037652...00000673"`

(i) Identify one drawback of adding leading '0' characters to each numeric string.

[1]

(ii) Suggest an alternative method of storing the samples which does **not** involve adding leading '0' characters but which would still allow each individual sample to be extracted.

[1]

(iii) State **one** drawback of the alternative method given in part **(b)(ii)**.

[1]