Symbol Tables

A. For each application, choose the best types for the ST:

A. For each application, choose the best types for the S1:	
For each calendar year since 1748, the number of students who graduated from Princeton that year.	a. ST <string, integer=""></string,>
2. Dictionary of all synonyms of all English words.	b. ST <string, boolean=""></string,>
3. Count frequency of words in a book.	c. ST <integer, string=""></integer,>
4. List people living at every postal address and their ages.	d. ST <integer, integer=""></integer,>
5. Track how each senator voted (yes or no) on a motion.	e. ST <string, string[]=""></string,>
6. Look up the state containing any given zip code.	f. ST <string, integer="" st<string,="">></string,>
	,
В.	

- 1. Say we have a program that uses a double[]. Can we replace it with ST<Integer, Double> in all cases? Why or why not?
- 2. Now, vice versa. Say we have a program that uses ST<Integer, Double>. Can we replace it with a double[] in all cases? Why or why not?
- 3. What are the benefits of using an ST?
- 4. What are the benefits of using an array?