2.4 Problem set

Problem 2.4.1. Fill the code in the program carray.cpp. Write test programs in **carraytest.cpp** routine to test your code.

Problem 2.4.2. This is an assignment problem for my 3rd grade daughter at Tom Matsumoto Elementary School, San Jose, CA.

Problem: The cost of each letter is given in the table below. Find a SINGLE LEGEAL WORD (that must be in a dictionary) such that the total cost of the word is EXACTLY 25\$.

Example:

```
begin 5.17
beginner 7.42
beginners 7.57
```

The cost of each alphabet is as follows:

a = 1.00\$

b = 0.01\$

c = 0.02\$

d = 0.03\$

e = 2.00\$

f = 0.04\$

g = 0.05\$

h = 0.06\$

i = 3.00\$

j = 0.07\$

k = 0.08\$

1 = 0.09\$

m = 0.10\$

n = 0.11\$

o = 4.00\$

p = 0.12\$

q = 0.13\$

r = 0.14\$

s = 0.15\$

t = 0.16\$

u = 5.00\$

v = 0.17\$

w = 0.18\$

x = 0.19\$

y = 6.00\$

z = 0.20\$

Write a *class* called **TomMatsumoto** that can print words that satisfies the above requirements.