Question 1
Part A: Circle the answer: A B C D E F G H I J K L M N O P
Part B: Circle the answer: A B C D E F G H I J

Question 2
Reason for the segmentation violation:
Line 1: 
Line 2: 
Line 3: 
Line 4: 
Line 5: 
Line 6: 

Question 3
Scenario 1: Circle the answer: a b c d e f g h i j k l m n o
Scenario 2: Circle the answer: a b c d e f g h i j k l m n o
Scenario 3: Circle the answer: a b c d e f g h i j k l m n o
Scenario 4: Circle the answer: a b c d e f g h i j k l m n o
Scenario 5: Circle the answer: a b c d e f g h i j k l m n o
Scenario 6: Circle the answer: a b c d e f g h i j k l m n o

Question 4: Circle the answer
Implementation 1: 10 seconds 11 seconds 20 seconds 22 seconds 40 seconds 44 seconds > 60 seconds
Implementation 2: 10 seconds 11 seconds 20 seconds 22 seconds 40 seconds 44 seconds > 60 seconds
Implementation 3: 10 seconds 11 seconds 20 seconds 22 seconds 40 seconds 44 seconds > 60 seconds
Implementation 4: 10 seconds 11 seconds 20 seconds 22 seconds 40 seconds 44 seconds > 60 seconds
Implementation 5: 10 seconds 11 seconds 20 seconds 22 seconds 40 seconds 44 seconds > 60 seconds
Implementation 6: 10 seconds 11 seconds 20 seconds 22 seconds 40 seconds 44 seconds > 60 seconds
Implementation 7: 10 seconds 11 seconds 20 seconds 22 seconds 40 seconds 44 seconds > 60 seconds
Implementation 8: 10 seconds 11 seconds 20 seconds 22 seconds 40 seconds 44 seconds > 60 seconds

Question 5: Part 1: Describe, in words, what data structures you are using to solve the problem, and what each data structure contains.
Question 5: Part 2: Write the program. Here, I'll get you started:

```c
#include <cstdio>
#include <cstdlib>
#include <map>
#include <set>
#include <string>
#include <iostream>
using namespace std;

int main()
{
}
```