

Gebze Institute of Technology Department of Computer Engineering CSE 241/505 Object Oriented Programming Fall 2014 Homework # 7

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```
class List
public:
      /* No parameter constructor */
      List();
      /* 2 Parameter Constructor */
      List(string word1);
      /* copy constructor */
      List(const List& other);
      /* assignment operator */
      List& operator=(const List& other);
      /* getters */
      string getWord() const {return word;}
      int getCapacity() const {return capacity;}
      int getUsed() const {return used;}
      int getLineNo() const {return lineNo;}
      int* getIndexArr() const {return indexArr;}
      /* setters */
      void setWord(const string);
      void setCapacity(const int);
      void setUsed(const int);
      void setLineNo(const int);
      /* index arrayina satir numarasi ekleme fonksiyonu */
      void addLine(int line);
      /* index arrayini siralama fonksiyonu. */
      void sortIndexArr();
      /* destructor */
      \simList();
private:
      string word; // kelime
      int* indexArr; // kelimelerin bulundugu satirin tutuldugu dizi
      int lineNo: // satir numarasi
      int capacity; // indexArr kapasitesi
      int used; // indexArr kullanilan alani
};
class DocumentIndex
public:
      /* constructors */
      DocumentIndex();
      DocumentIndex(string);
      /* copy constructors */
      DocumentIndex(const DocumentIndex & other);
      /* getters */
      int getNumOfWord() const {return numOfWord;}
      int getNumOfLine() const {return numOfLine;}
```

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int getNumOfCapacityList() const {return capacityList;}
      int getNumOfUsedList() const {return usedList;}
      /* assignment operator */
      DocumentIndex& operator=(const DocumentIndex& other);
      /* parametre olarak kelime alir, kelimenin gectigi satir numaralarini dondurur. */
      int* operator[](const string word);
      /* parametre olarak satir numarasi alir, o satir da bulunan kelimeleri dondurur. */
      string operator[](const int lineNumber);
      // binary operators
      const DocumentIndex operator+(const DocumentIndex& other);
      // compound assignment operators
      DocumentIndex& operator+=(const DocumentIndex& other);
      /* i/ostream functions */
      friend std::ostream& operator<<(std::ostream& outs, const DocumentIndex& other);
      friend std::istream& operator>>(std::istream& ins, DocumentIndex& other);
      /* Dosyadan okuma fonksiyonu */
      void readFile();
      /* Dosvaya yazma fonksiyonu */
      void writeFile(string);
      /* listeye ekleme fonksiyonu */
      void addList();
      /* listedeki ayni kelimeleri kaldirip duzenli liste olusturma fonksiyonu */
      void editList();
      /* kelime ve onun satir numarasini ekleyen fonksiyon */
      void addWordAndLineNo(string, int);
      /* destructor */
      ~DocumentIndex();
private:
      string fileName; // dosya adi
      int numOfWord; // kelime sayisi
      int numOfLine; // satir sayisi
      List* listArr; /* stringlerin ve lineNo larin atildigi liste */
      int usedList; /* listenin kullanilan kismi */
      int capacityList; /* listenin kapasitesi */
      List* tmpListArr; /* stringlerin ve lineNo larin atildigi liste */
      int tmpUsedList; /* listenin kullanilan kismi */
      /* print list */
      void printListArr() const;
      /* edit list yardimci fonksiyonu */
      void matchList(string wrd, int lnNo);
      /* listeyi siralama */
      void listSort();
};
```

Ödevin içeriği:

Bir metin dosyasının index (dizin) ini oluşturur.

Ödevin Çalıştırılma Şekli:

 $g++-c\ HW07_111044043_List.cpp\ HW07_111044043_DocumentIndex.cpp\ HW07_111044043_TEST.cpp\ g++-o\ HW07\ HW07_111044043_List.o\ HW07_111044043_DocumentIndex.o\ HW07_111044043_TEST.o\ ./HW07$

Ya da <u>Makefile</u> çalıştırabilirsiniz. (Dosyanın bulunduğu klasöre girip, Terminale **make** yazmanız yeterli olacaktır.)

Ekran Görüntüleri:

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