### Title of Your Thesis We Tested a Very Very Long Title to See What Happens in This Case Then We Made it Longer and We Can Make It Even Longer Than Longer

#### Submitted by

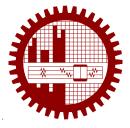
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Supervised by

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Department of Computer Science and Engineering Bangladesh University of Engineering and Technology

Dhaka, Bangladesh

February 2017

### **CANDIDATES' DECLARATION**

This is to certify that the work presented in this thesis, titled, "Title of Your Thesis We Tested a Very Very Long Title to See What Happens in This Case Then We Made it Longer and We Can Make It Even Longer Than Longer", is the outcome of the investigation and research carried out by us under the supervision of Supervisor Name.

It is also declared that neither this thesis nor any part thereof has been submitted anywhere else for the award of any degree, diploma or other qualifications.

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#### **CERTIFICATION**

This thesis titled, "Title of Your Thesis We Tested a Very Very Long Title to See What Happens in This Case Then We Made it Longer and We Can Make It Even Longer Than Longer", submitted by the group as mentioned below has been accepted as satisfactory in partial fulfillment of the requirements for the degree B.Sc. in Computer Science and Engineering in February 2017.

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### **ACKNOWLEDGEMENT**

We are thankful to	
Finally, .	
Dhaka	
February 2017	First Thesis Student Name
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	Third Thesis Student Name

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1 Calculate $y = x^n$		. 1	5
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### **ABSTRACT**

Write your thesis abstract here.

## **Chapter 1**

### Introduction

This chapter is for your introduction.

### 1.1 Cross Referencing

We have incorporated the \cref or \Cref command from cleveref package in this system. This will automatically insert words like Figure, Table etc. in your text.

See these examples:

- Figure 1.1 is a sample figure.
- Table 1.1 is a table.
- Section 2.1 in Chapter 2 shows some examples of citations.

#### 1.2 How to Write a Section

This is for writing section.

### 1.3 How to Add Table and Figures

You should refer a figure as, "Figure 1.1 is a sample figure".

Then we applied same test cases to our modified algorithm i.e. the heuristic algorithm with our new operation *Block Reversal*. The performance is shown in Table 1.1.

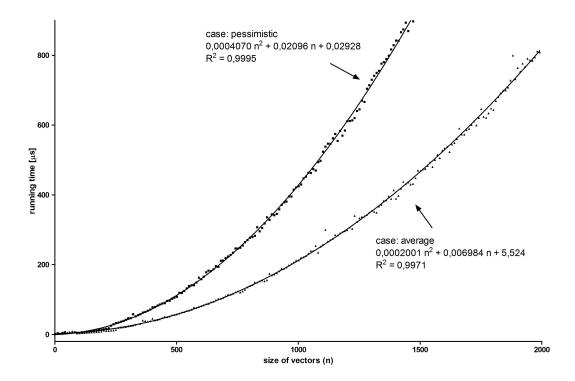


Figure 1.1: This is a sample figure.

Table 1.1: Performance table of *Block reversal* in a heuristic algorithm (n = 20)

$\alpha$	$\alpha n$			ases Average # of									
		1	2	3	4	5	6	7	8	9	10	11	calculated operation
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0.2	4	4	4	5	2	4	4	4	4	2	4	4	3.73
0.3	6	5	6	6	6	6	7	6	5	6	6	6	5.91
0.4	8	7	8	5	6	7	6	6	7	8	8	7	6.82
0.5	10	9	10	6	12	10	8	10	10	7	7	10	9
0.6	12	9	12	16	10	12	12	9	11	12	9	12	11.27
0.7	14	13	7	18	15	14	8	13	11	13	13	14	12.64
0.8	16	10	17	14	16	13	16	13	11	13	17	13	13.91
0.9	18	14	16	15	12	15	11	15	11	15	12	12	13.45
1	20	18	11	13	11	13	15	17	17	13	18	12	14.36

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## Chapter 2

## **Citation Examples**

In this chapter we show how we can cite the references.

#### 2.1 See the Citations

As discussed by authors in [1–3] we can further show how this affects us. Moreover [4–11] can be examples for the previous works. Among these [10, 12–17] are the prominent ones. Also you can take a look at [18–25].

## Chapter 3

## **Another Chapter**

#### 3.1 A Section

Some text.

#### 3.1.1 This is a Subsection

And some more.

#### This is a Subsubsection

Yet some more.

#### 3.2 And Another Section

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## **Chapter 4**

### **Index Creation**

#### **4.1 BUET**

Bangladesh University of Engineering and Technology, abbreviated as BUET, is one of the most prestigious institutions for higher studies in the country. About 5500 students are pursuing undergraduate and postgraduate studies in engineering, architecture, planning and science in this institution. At present, BUET has sixteen teaching departments under five faculties and it has three institutes. Every year the intake of undergraduate students is around 900, while the intake of graduate students in Master's and PhD programs is around 1000. A total of about five hundred teachers are teaching in these departments and institutes. There are additional teaching posts like Dr. Rashid Professor, Professor Emeritus and Supernumerary Professors.

### 4.2 Campus

The BUET campus is in the heart of Dhaka — the capital city of Bangladesh. It has a compact campus with halls of residence within walking distances of the academic buildings. The physical expansion of the University over the last three decades has been impressive with construction of new academic buildings, auditorium complex, halls of residence, etc.

### 4.3 History

BUET is the oldest institution for the study of Engineering and Architecture in Bangladesh. The history of this institution dates back to the days of Dhaka Survey School which was established at Nalgola, in Old Dhaka in 1876 to train Surveyors for the then Government of Bengal of British India. As the years passed, the Survey School became the Ahsanullah School of En-

4.4. STUDENTS 9

gineering offering three-year diploma courses in Civil, Electrical and Mechanical Engineering. In recognition of the generous financial contribution from the then Nawab of Dhaka, it was named after his father Khawja Ahsanullah. It moved to its present premises in 1912. In 1947, the School was upgraded to Ahsanullah Engineering College as a Faculty of Engineering under the University of Dhaka, offering four-year bachelors courses in Civil, Electrical, Mechanical, Chemical and Metallurgical Engineering. In order to create facilities for postgraduate studies and research, Ahsanullah Engineering College was upgraded to the status of a University in 1962 and was named East Pakistan University of Engineering and Technology. After the War of Liberation in 1971, Bangladesh became an independent state and the university was renamed as the Bangladesh University of Engineering and Technology.

#### 4.4 Students

Till today, it has produced around 25,000 graduates in different branches of engineering and architecture, and has established a good reputation all over the world for the quality of its graduates, many of whom have excelled in their profession in different parts of the globe. It was able to attract students from countries like India, Nepal, Iran, Jordan, Malaysia, Sri Lanka, Pakistan and Palestine.

### 4.5 Departments

Both Undergraduate and Postgraduate studies and research are now among the primary functions of the University. Eleven departments under five faculties offer Bachelor Degrees, while most of the departments and institutes offer Master's Degrees and some of the departments have Ph.D. programs. In addition to its own research programs, the university undertakes research programs sponsored by outside organizations like European Union, UNO, Commonwealth, UGC, etc. The expertise of the University teachers and the laboratory facilities of the University are also utilized to solve problems and to provide up-to-date engineering and technological knowledge to the various organizations of the country.

## Chapter 5

## k-safe Labeling of Petersen Graph

In 1898, Petersen produced a trivalent graph with no leaves, now called the Petersen graph [26]. In this chapter we study k-safe labeling for the Petersen graph. We also give upper bound for the span of the Petersen graph. We provide necessary proof for the upper bound.

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## Appendix A

## **Algorithms**

### A.1 Sample Algorithm

In Algorithm 1 we show how to calcute  $y = x^n$ .

```
Algorithm 1 Calculate y = x^n
Require: n \ge 0 \lor x \ne 0
Ensure: y = x^n
   y \leftarrow 1
   \quad \text{if } n < 0 \text{ then }
      X \leftarrow 1/x
      N \leftarrow -n
   else
      X \leftarrow x
       N \leftarrow n
   end if
   while N \neq 0 do
      if N is even then
          X \leftarrow X \times X
          N \leftarrow N/2
      else \{N \text{ is odd}\}
          y \leftarrow y \times X
          N \leftarrow N-1
      end if
   end while
```

## Appendix B

## **Codes**

### **B.1** Sample Code

We use this code to find out...

```
1 #include <stdio.h>
2 int Fibonacci(int);
4 main()
5 {
    int n, i = 0, c;
7
    printf("Enter_the_value_of_n:_");
9
    scanf("%d",&n);
10
    printf("\nFibonacci_series\n");
11
12
13
    for (c = 1 ; c <= n ; c++)
14
         printf("%d\n", Fibonacci(i));
15
         i++;
16
17
       }
18
    return 0;
19
20 }
21
22 int Fibonacci(int n)
23 {
```

```
24   if (n == 0)
25    return 0;
26   else if (n == 1)
27    return 1;
28   else
29    return (Fibonacci(n-1) + Fibonacci(n-2));
30 }
```

### **B.2** Another Sample Code

```
1 SELECT associations2.object_id, associations2.term_id,
         associations2.cat_ID, associations2.term_taxonomy_id
3 FROM (SELECT objects_tags.object_id, objects_tags.term_id,
       wp_cb_tags2cats.cat_ID, categories.term_taxonomy_id
5 FROM (SELECT wp_term_relationships.object_id,
       wp_term_taxonomy.term_id, wp_term_taxonomy.term_taxonomy_id
7 FROM wp_term_relationships
8 LEFT JOIN wp_term_taxonomy ON
       wp_term_relationships.term_taxonomy_id =
10
       wp_term_taxonomy.term_taxonomy_id
11 ORDER BY object_id ASC, term_id ASC)
12 AS objects_tags
13 LEFT JOIN wp_cb_tags2cats ON objects_tags.term_id =
14
       wp_cb_tags2cats.tag_ID
15 LEFT JOIN (SELECT wp_term_relationships.object_id,
16
       wp_term_taxonomy.term_id as cat_ID,
17
       wp_term_taxonomy.term_taxonomy_id
18 FROM wp_term_relationships
19 LEFT JOIN wp_term_taxonomy ON
20
       wp_term_relationships.term_taxonomy_id =
21
       wp_term_taxonomy.term_taxonomy_id
22 WHERE wp_term_taxonomy.taxonomy = 'category'
23 GROUP BY object_id, cat_ID, term_taxonomy_id
24 ORDER BY object_id, cat_ID, term_taxonomy_id)
25 AS categories on wp_cb_tags2cats.cat_ID = categories.term_id
26 WHERE objects_tags.term_id = wp_cb_tags2cats.tag_ID
27 GROUP BY object_id, term_id, cat_ID, term_taxonomy_id
28 ORDER BY object_id ASC, term_id ASC, cat_ID ASC)
29 AS associations2
30 LEFT JOIN categories ON associations2.object_id =
```

- 31 categories.object\_id
- 32 WHERE associations2.cat\_ID <> categories.cat\_ID
- 33 GROUP BY object\_id, term\_id, cat\_ID, term\_taxonomy\_id
- 34 ORDER BY object\_id, term\_id, cat\_ID, term\_taxonomy\_id

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