Question 3

In this problem, you should input a string "x" ($0 \le h(x) \le 5$), and then determine if x **in binary** is a palindrome. If the ASCII code of x **in binary** is a palindrome, you need to output "x is a binary palindrome". Otherwise, you need to output "x is not a binary palindrome". Note that we are judging whether **the binary form of x's ASCII code** is a palindrome, but not the string x.

Moreover, you also need to output the ASCII code of x in form of "the ASCII code is c_1 - c_2 - c_3 - c_4 - c_5 " (c_i means the ASCII code in decimal of the ith character). And the binary code is in form of "the binary code is b_1 - b_2 - b_3 - b_4 - b_5 " (b_i means the 8 bits binary code of the ith character). And the exact length of output will depend on the length(x), for example, you will output the ASCII code of x in form of "the ASCII code is c_1 - c_2 - c_3 " when length(x) is equal to 3 and the ASCII code of x in form of "the ASCII code is c_1 " when length(x) is equal to 1.

For example: **Fb-->70 98--> 01000110 01100010**. In this case, "Fb" is the input string "x". The ASCII code of "F" is 70, and the ASCII code of "b" is 98. Then translate the ASCII code into an 8-bit binary code: **70-->01000110**, **98-->01100010**. Therefore, the binary form of its ASCII code is a palindrome. Finally, what you need to output is the context in the picture.

```
• Fb is a binary palindrome
the ASCII code is 70-98
the binary code is 01000110-01100010
```

Please pay attention to the above description!!!

HINT:

- 1. The length of the string we count does not include the "\0" added by the system when reading in.
- 2. The ASCII table has been placed below, all input char will be included in this table.

ASCII printable characters					
32	space	64	@	96	•
33	!	65	A	97	а
34		66	В	98	b
35	#	67	C	99	С
36	\$	68	D	100	d
37	%	69	E	101	е
38	&	70	F	102	f
39		71	G	103	g
40	(72	Н	104	h
41)	73	1	105	i
42	*	74	J	106	j
43	+	75	K	107	k
44	,	76	L	108	- 1
45		77	M	109	m
46		78	N	110	n
47	1	79	0	111	0
48	0	80	P	112	р
49	1	81	Q	113	q
50	2	82	R	114	r
51	3	83	S	115	S
52	4	84	Т	116	t
53	5	85	U	117	u
54	6	86	V	118	V
55	7	87	W	119	w
56	8	88	X	120	X
57	9	89	Y	121	У
58	:	90	Z	122	Z
59	;	91	[123	{
60	<	92	1	124	- 1
61	=	93]	125	}
62	>	94	٨	126	~
63	?	95	_		

I/O Examples:

```
input:f
output:
f is a binary palindrome
the ASCII code is 102
the binary code is 01100110
```

```
input:fff
output:
fff is a binary palindrome
the ASCII code is 102-102-102
the binary code is 01100110-01100110
```

```
input:abfba
output:
abfba is not a binary palindrome
the ASCII code is 97-98-102-98-97
the binary code is 01100001-01100010-01100010-01100001
```