Longest Sequence of 1 after flipping a bit

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1. What is the maximu	m length of the lor	ngest sequence of 1's th	nat can be achieved
by flipping one bit in the	ne binary sequence	e "110111011"?	
• 3			
• 4			

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Ans: 4

2.what is the time complexity of longest sequence of 1's after flipping a bit

• o(n)

• o(n*n)

• o(log n)

• o(log(log n))

Ans: o(n)

3. What is the maximum length of the longest sequence of 1's that can be achieved by flipping one bit in the binary sequence "10011110010"?

• 3

• 4

• 5

• 6

Ans: 6

4. What is the maximum length of the longest sequence of 1's that can be achieved by flipping one bit in the binary sequence "11111100010"?
 5 6 7 8
Ans: 7
 5. what is the space complexity of longest sequence of 1's after flipping a bit o(n) o(1) o(2) o(n*n)
Ans: o(1)
6. What is the maximum length of the longest sequence of 1's that can be achieved by flipping one bit in the binary sequence "10100011110"?
 3 4 5 6
Ans: 5
7. What is the maximum length of the longest sequence of 1's that can be achieved by flipping one bit in the binary sequence "1100101101100010"?
 10 9 8 7 Ans: 7

8.In computer science, what is the term used to describe the process of changing a 0 to a 1 or vice versa?

- Flipping
- Toggling
- Inverting
- Reversing

Ans: Flipping

9. Which of the following statements is true regarding the longest sequence of 1's after flipping a bit?

- Flipping any bit in a sequence of 1's will always increase the length of the sequence.
- Flipping any bit in a sequence of 1's may increase or decrease the length of the sequence.
- Flipping any bit in a sequence of 1's will always decrease the length of the sequence.
- Flipping any bit in a sequence of 1's has no effect on the length of the sequence.

Ans: Flipping any bit in a sequence of 1's may increase or decrease the length of the sequence.

10. What is the maximum possible length of a sequence of 1's after flipping exactly one bit in a binary sequence of length N?

- N-1
- N
- N+1
- N+2gths

Ans: N+1