```
public class MultipleChoiceQuestion implements Question
   public static final String LETTERS = "ABCD";
   private int x;
   private int y;
   private int answer;
   private int[] choices;
    public MultipleChoiceQuestion()
       x = (int) (Math.random() * 10);
       y = (int) (Math.random() * 10);
        answer = x+y;
        choices = new int[]{x+y, getRand(), getRand(), getRand()};
        //randomizes pos of answer
        int index = (int) (Math.random() * 4);
        int temp = choices[0];
        choices[0] = choices[index];
       choices[index] = temp;
    public int getRand() {
        int num = (int) (Math.random() * 20);
        while(num==answer) {
          num = (int) (Math.random() * 20);
       return num;
    public String getQuestion(){
       return "What is " + x + " plus " + y + "?" + " Choices: a)" + choices[0] + "
b) " + choices[1] + " c) " + choices[2] + " d) " + choices[3];
    public String getAnswer() {
      return answer + "";
    public boolean isCorrect(String response) {
        if((x = LETTERS.indexOf(response.toUpperCase())) != -1)
           return choices[x] == answer;
       return false;
```