```
1 import sympy
2\ {\tt import}\ {\tt random}
3 \text{ solved} = []
4 text = input("text: ")
5 for char in text:
       number = ord(char.lower())
       solved.append(number)
8 x = sympy.symbols('x')
9 random_numbers=[]
10 for i in range(len(solved)):
11
       r=random.randint(1,100)
       if r not in random_numbers: random_numbers.append(r)
13 z = x - x
14 \circ = z + 1
15 \text{ def linterpolation(y, xs=None)}:
       if xs is None:
16
17
           xs = list(range(1, len(y) + 1))
       assert len(y) == len(xs)
18
19
20
       result = z
21
       for j, (xj, yj) in enumerate(zip(xs, y)):
22
           polynomial = o
23
           for m, xm in enumerate(xs):
24
               if m != j:
25
                    polynomial *= (x - xm) / (xj - xm)
26
           result += yj * polynomial
27
       return sympy.expand(result).evalf()
28 print(random_numbers)
29 print(linterpolation(solved, random_numbers))
```