Software Quality Engineering

Assignment # 1

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Section # 1

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CASE STUDY Hospital Management System

Taking care of our Health is the most prior thing in our lives and there is always in times of needs when our health is at risk and due to some reason we could not reach to clinics immediately and sometimes due to our hectic schedule we could not just go the clinic and waiting long queue just to take an appointment for the check up so we need some automated system which should be reliable, fast and accurate which should be there for us in times of needs

Hospital Management System is aimed to maintain the day-to-day state of admission/discharge of patients, a list of doctor's reports generation, etc. This system will be designed to improve clinical workflow, and perform advanced appointment scheduling. This application will connect clinics and patient online through web based application. Now days no one has time to visit clinic and wait for appointment. This application will help for getting online appointment. Patient can get appointment through SMS or Internet.

Receptionist will manage all the appointment. Doctors can make their schedule according to patient's appointments, which should not be more than 10 in a day and not less than 3. Patient can see online how many people are waiting queue for appointment. Doctor will upload all the patient medical history on website. This information is will be visible to the patient and the visiting Doctors only to maintain the privacy with help of provided their own personal login system which they have to provide their name which should not more 20 alphabet character in small letter but not less than 6, password which should be 6 digit number at least but no more than 10 and contact number with 15 digit but no less than 7 digit. As patient and clinic will be connected online, if a patient gets transferred from one clinic to another clinic, visited clinics doctor can see medical history of that patient and personal information of patient using the portal. It will be a waiting room solution. Patient can pay the doctor's bill through online payment system, which will be starting, from PRs.300 to PRs. 3000 according to patient treatment.

Importance of web-based application is increasing day by day, it is important to manage all the healthcare data online. Now everyone has Internet connection and it is easy to use web application. This application will reduce the work of patient as well as doctor. Doctor does not need to take patient's initial description such as weight, patient's blood group repeatedly, because all this information will be entered at the time of registration of patient on website. Doctor will automatically see patient's information. There is no more hardware required for patient and doctor. Efficient appointment schedules will reduce patient waiting time while keeping doctor's idle time as low as possible without adding extra resources. Efficient and effective management of healthcare is imperative due to the efficient appointment scheduling.

1. FUNCTIONS:

- 1. Manage_Appointment (int appointment)
- 2. PayBill(Double amount)
- 3. Sign-up(String name, String password, String contact_no)

BLACK BOX TESTING

1. Boundary Value Analysis Testing:

Function 1:

Manage_Appointment (int noOfappointment)

• Constarint:

3<= noOfappointment >=10

• Boundary:

noOfappointment => 3 and 10

• **Test cases**: 4(n) + 1 => 4(1) + 1 = 5

• Input values:

$$min = 3$$

$$min+1=4$$

$$normal = 7$$

$$max-1 = 9$$

$$max = 10$$

Case	noOfappointment	Expected output
1	3	✓
2	4	✓
3	7	✓
4	9	✓
5	10	✓

✓ => Valid input

Function 2:

PayBill(Double amount)

• Constraint:

• Boundary:

amount = 300 and 3000

• **Test cases**: 4(n) + 1 => 4(1) + 1 = 5

• Input values:

Case	amount	Expected output
1	300	✓
2	301	✓
3	1800	✓
4	2999	✓
5	3000	✓

✓ => Valid input

Function 3:

Sign-up (String name, String password, String contact_no)

• **Total Test cases**: $4n+1 \Rightarrow 4(3)+1 = 13$

• Constraint:

Boundaries:

• Input values:

For name

min = Newton

min+1= Thommas

normal = Mark Zukerburg

max-1 = Mahenoor Haider Ali

max = Aleaxander Hamillton

For Password

min = 123abc

min+1=567mnop

normal = gho 34566

max-1 = code22246

max = pinx 123456

For Contact_no

min = 1234567

min+1= 12345678

normal = 12345678910

max-1 = 12345678911234

max = 123456789112345

Case	name	password	contact_no	Expected output
1	Mark Zukerburg	gho34566	1234567	✓
2	Mark Zukerburg	gho34566	12345678	√
3	Mark Zukerburg	gho34566	12345678910	✓
4	Mark Zukerburg	gho34566	12345678911234	√
5	Mark Zukerburg	gho34566	123456789112345	√
6	Newton	gho34566	12345678910	✓
7	Thommas	gho34566	12345678910	√

8	Mahenoor Haider Ali	gho34566	12345678910	✓
9	Aleaxander Hamillton	gho34566	12345678910	✓
10	Mark Zukerburg	123abc	12345678910	✓
11	Mark Zukerburg	567mnop	12345678910	√
12	Mark Zukerburg	code22246	12345678910	✓
13	Mark Zukerburg	pinx123456	12345678910	✓

2. Robust Boundary Value Analysis Testing:

Function 1:

Manage_Appointment (int noOfappointment)

• Constarint:

3<= noOfappointment >=10

• Boundary:

noOfappointment = 3 and 10

• **Test cases**: 6(n) + 1 => 6(1) + 1 = 7

• Input values:

Min-1=2

Min = 3

Min+1=4

Normal = 7

Max-1 = 9

$$Max = 10$$

$$Max+1=11$$

Case	noOfappointment	Expected output
1	2	*
2	3	✓
3	4	✓
4	7	✓
5	9	✓
6	10	✓
7	11	*

x => Invalid input

Function 2:

PayBill(Double amount)

• Constraint:

300<=amount>=3000

• Boundary:

amount = 300 and 3000

• **Test cases**: 6(n) + 1 => 6(1) + 1 = 7

• Input values:

Min-1=299

Min = 300

Min+1=301

Normal = 1800

Max-1 = 2999

Max = 3000

Max+1=3001

Case	amount	Expected output
1	299	×
2	300	✓
3	301	✓
4	1800	✓
5	2999	✓
6	3000	✓
7	3001	×

```
✓ => Valid input
```

Function 3:

Sign-up (String name, String password, String contact_no)

- **Total Test cases**: $6n+1 \Rightarrow 6(3)+1 = 19$
- Constraint:

Boundaries:

Name = 6 and 20 Password = 6 and 10 Contact_no = 7 and 15

• Input values:

For name

Min-1= Jonas

x => Invalid input

Min = Newton

Min+1=Thommas

Normal = Mark Zukerburg

Max-1 = Mahenoor Haider Ali

Max = Aleaxander Hamillton

Max+1= Hubert Blaine Grayson

For Password

min-1= 123ab

min = 123abc

min+1=567mnop

normal = gho34566

max-1 = code 22246

max = pinx 123456

max+1 = putx4445556

For Contact_no

min-1= 123456

min = 1234567

min+1=12345678

normal = 12345678910

max-1 = 12345678911234

max = 123456789112345

max+1=224466889977551

Case	name	password	Contact_no	Expexted output
1	Mark Zukerburg	gho34566	123456	×
2	Mark Zukerburg	gho34566	1234567	√
3	Mark Zukerburg	gho34566	12345678	✓
4	Mark Zukerburg	gho34566	12345678910	✓
5	Mark Zukerburg	gho34566	12345678911234	√
6	Mark Zukerburg	gho34566	123456789112345	√
7	Mark	gho34566	224466889977551	×

	Zukerburg			
8	Mark	gho34566	12345678910	×
	Zukerburg			
9	Mark	123ab	12345678910	✓
	Zukerburg			
10	Mark	123abc	12345678910	✓
	Zukerburg			
11	Mark	567mnop	12345678910	✓
	Zukerburg			
12	Mark	code22246	12345678910	✓
	Zukerburg			
13	Mark	pinx123456	12345678910	×
	Zukerburg			
14	Jonas	gho34566	12345678910	×
15	Newton	gho34566	12345678910	✓
16	Thommas	gho34566	12345678910	✓
17	Mahenoor	gho34566	12345678910	✓
	Haider Ali			
18	Aleaxander	gho34566	12345678910	✓
	Hamillton			
19	Hubert Blaine	gho34566	12345678910	×
	Grayson			

3. Worst Case Boundary value Analysis Testing:

Function 1:

Manage_Appointment (int noOfappointment)

• Constarint:

3<= noOfappointment >=10

• **Boundary**: noOfappointment = 3 and 10

• **Test cases**: $5^n = 5^1 = 5$

• Input values:

Case	noOfappointment	Expected output
1	3	✓
2	4	✓
3	7	✓
4	9	✓
5	10	✓

Function 2:

PayBill(Double amount)

• Constraint:

300<=amount>=3000

• Boundary:

Amount = 300 and 3000

- **Test cases**: $5^n = 5^1 = 5$
- Input values:

Case	amount	Expected output
1	300	✓
2	301	✓
3	1800	✓

4	2999	√
5	3000	✓

Function 3:

Sign-up (String name, String password, String contact_no)

- **Test cases**: $5^n = 5^3 = 125$
- Constraint:

6<=name>=20 6<=password>=10 7<=contact_no>=15

• Boundaries:

Name = 6 and 20 Password = 6 and 10 Contact_no = 7 and 15

• Input values =

For name

min = Newton

min+1= Thommas

normal = Mark Zukerburg

max-1 = Mahenoor Haider Ali

max = Aleaxander Hamillton

For Password

min = 123abc

min+1=567mnop

normal = gho34566

max-1 = code 22246

max = pinx 123456

For Contact_no

min = 1234567

min+1=12345678

normal = 12345678910

max-1 = 12345678911234

max = 123456789112345

Case	name	password	contact_no	Expected output
1.	Newton	123abc	1234567	✓
2.	Newton	123abc	12345678	✓
3.	Newton	123abc	12345678910	✓
4.	Newton	123abc	12345678911234	✓
5.	Newton	123abc	123456789112345	✓
6.	Newton	567mnop	1234567	✓
7.	Newton	567mnop	12345678	✓
8.	Newton	567mnop	12345678910	✓
9.	Newton	567mnop	12345678911234	✓
10.	Newton	567mnop	123456789112345	✓
11.	Newton	gho34566	1234567	✓
12.	Newton	gho34566	12345678	✓
13.	Newton	gho34566	12345678910	✓
14.	Newton	gho34566	12345678911234	✓
15.	Newton	gho34566	123456789112345	✓
16.	Newton	code22246	1234567	✓
17.	Newton	code22246	12345678	✓

Newton	code22246	12345678910	✓
Newton	code22246	12345678911234	✓
Newton	code22246	123456789112345	✓
Newton	pinx123456	1234567	✓
Newton	pinx123456	12345678	✓
Newton	pinx123456	12345678910	✓
Newton	pinx123456	12345678911234	✓
Newton	pinx123456	123456789112345	✓
Thommas	123abc	1234567	✓
Thommas	123abc	12345678	✓
Thommas	123abc	12345678910	✓
Thommas	123abc	12345678911234	✓
	123abc	123456789112345	✓
	+		✓
	-	12345678	✓
	•		✓
	567mnop	12345678911234	✓
		123456789112345	✓
	-	1234567	✓
Thommas		12345678	✓
Thommas	gho34566	12345678910	✓
Thommas	gho34566	12345678911234	✓
Thommas	gho34566	123456789112345	✓
Thommas	code22246	1234567	✓
Thommas	code22246	12345678	✓
Thommas	code22246	12345678910	✓
Thommas	code22246	12345678911234	✓
Thommas	code22246	123456789112345	✓
Thommas	pinx123456	1234567	✓
Thommas	pinx123456	12345678	✓
Thommas	pinx123456	12345678910	✓
Thommas	pinx123456	12345678911234	✓
Thommas	pinx123456	123456789112345	✓
Mark	123abc	1234567	✓
Zukerburg			
Mark	123abc	12345678	✓
	123abc	12345678910	✓
		122/5	
	123abc	12345678911234	✓
		1.22.12.620.2	
	123abc	123456789112345	✓
		400.000	
Mark	567mnop	1234567	✓
	Newton Newton Newton Newton Newton Newton Newton Thommas	Newton code22246 Newton pinx123456 Thommas 123abc Thommas 123abc Thommas 123abc Thommas 123abc Thommas 567mnop Tho	Newton code22246 12345678911234 Newton pinx123456 123456789112345 Newton pinx123456 12345678 Newton pinx123456 12345678910 Newton pinx123456 12345678911234 Newton pinx123456 123456789112345 Newton pinx123456 123456789112345 Thommas 123abc 123456789112345 Thommas 123abc 12345678 Thommas 123abc 12345678910 Thommas 123abc 12345678911234 Thommas 123abc 123456789112345 Thommas 567mnop 12345678 Thommas 567mnop 12345678 Thommas 567mnop 12345678 Thommas 567mnop 12345678910 Thommas 567mnop 123456789112345 Thommas gho34566 123456789112345 Thommas gho34566 123456789112345 Thommas gho34566 123456789112345 Thommas <

	Zukerburg			
57.	Mark	567mnop	12345678	✓
	Zukerburg	l · · · · · · · ·		
58.	Mark	567mnop	12345678910	✓
	Zukerburg	Corninop	120 100 7 0 9 1 0	
59.	Mark	567mnop	12345678911234	✓
	Zukerburg	207 milep	123 100 70 71123 1	
60.	Mark	567mnop	123456789112345	√
00.	Zukerburg	Зоттор	123 130 70 71123 13	
61.	Mark	gho34566	1234567	✓
01.	Zukerburg	g11034300	1254507	
62.	Mark	gho34566	12345678	√
02.	Zukerburg	g11054500	12343076	
63.	Mark	gho34566	12345678910	√
05.	Zukerburg	g11054500	12343070710	·
64.	Mark	gho34566	12345678911234	√
04.	Zukerburg	g11054500	12343070911234	•
65.	Mark	gho34566	123456789112345	√
03.	Zukerburg	g11054500	143430/07114343	•
66.	Mark	code22246	1234567	
00.		C00e22240	1234307	•
67.	Zukerburg Mark	code22246	12345678	
07.		Code22240	12343078	•
68.	Zukerburg Mark	code22246	12345678910	✓
08.		code22246	123430/8910	•
69.	Zukerburg Mark	code22246	12345678911234	./
09.		code22246	123430/8911234	•
70.	Zukerburg	1-22246	12245(700112245	./
/0.	Mark	code22246	123456789112345	•
71	Zukerburg	122456	1024567	√
71.	Mark	pinx123456	1234567	•
70	Zukerburg	: 102456	10245670	
72.	Mark	pinx123456	12345678	•
72	Zukerburg	100456	10045650010	
73.	Mark	pinx123456	12345678910	√
7.4	Zukerburg	100455	100 45 (500) 1100 4	
74.	Mark	pinx123456	12345678911234	v
	Zukerburg		100 45 (5004 (500) 5	
75.	Mark	pinx123456	123456789112345	✓
	Zukerburg	100 1	100 17 (7	
76.	Mahenoor	123abc	1234567	✓
	Haider Ali	122.1	1001555	
77.	Mahenoor	123abc	12345678	✓
	Haider Ali			
78.	Mahenoor	123abc	12345678910	✓
	Haider Ali			
79.	Mahenoor	123abc	12345678911234	✓

	Haider Ali			
80.	Mahenoor	123abc	123456789112345	✓
	Haider Ali			
81.	Mahenoor	567mnop	1234567	✓
	Haider Ali	1		
82.	Mahenoor	567mnop	12345678	✓
	Haider Ali	r		
83.	Mahenoor	567mnop	12345678910	✓
	Haider Ali	r		
84.	Mahenoor	567mnop	12345678911234	✓
	Haider Ali	, , , , , , , , , , , , , , , , , , ,		
85.	Mahenoor	567mnop	123456789112345	✓
	Haider Ali	Corninop	120 100 7 0 7 11 20 10	
86.	Mahenoor	gho34566	1234567	✓
	Haider Ali	8.200		
87.	Mahenoor	gho34566	12345678	✓
	Haider Ali	giiot it oo	120 .0070	
88.	Mahenoor	gho34566	12345678910	✓
	Haider Ali	B1103 12 00	123 120 709 10	
89.	Mahenoor	gho34566	12345678911234	✓
	Haider Ali	gnosisoo	123 100 703 1123 1	
90.	Mahenoor	gho34566	123456789112345	✓
, , ,	Haider Ali	gnosisoo	123 100 703 1123 10	
91.	Mahenoor	code22246	1234567	✓
	Haider Ali		120 1007	
92.	Mahenoor	code22246	12345678	✓
, _,	Haider Ali			
93.	Mahenoor	code22246	12345678910	✓
, , ,	Haider Ali			
94.	Mahenoor	code22246	12345678911234	✓
,	Haider Ali			
95.	Mahenoor	code22246	123456789112345	✓
	Haider Ali			
96.	Mahenoor	pinx123456	1234567	✓
	Haider Ali	r		
97.	Mahenoor	pinx123456	12345678	✓
	Haider Ali	r		
98.	Mahenoor	pinx123456	12345678910	✓
	Haider Ali	F ====================================		
99.	Mahenoor	pinx123456	12345678911234	✓
	Haider Ali	1		
100.	Mahenoor	pinx123456	123456789112345	✓
	Haider Ali	1		
101.	Aleaxander	123abc	1234567	✓
	Hamillton			
102.	Aleaxander	123abc	12345678	✓
			- 20,0	

	Hamillton			
103.	Aleaxander	123abc	12345678910	✓
	Hamillton			
104.	Aleaxander	123abc	12345678911234	✓
	Hamillton			
105.	Aleaxander	123abc	123456789112345	✓
	Hamillton			
106.	Aleaxander	567mnop	1234567	✓
	Hamillton	1		
107.	Aleaxander	567mnop	12345678	✓
	Hamillton	l I		
108.	Aleaxander	567mnop	12345678910	✓
	Hamillton	l I		
109.	Aleaxander	567mnop	12345678911234	✓
	Hamillton	1		
110.	Aleaxander	567mnop	123456789112345	✓
	Hamillton	l I		
111.	Aleaxander	gho34566	1234567	✓
	Hamillton	8230 10 00		
	Aleaxander	gho34566	12345678	✓
	Hamillton	8 11 11		
112.	Aleaxander	gho34566	12345678910	✓
	Hamillton			
113.	Aleaxander	gho34566	12345678911234	✓
	Hamillton			
114.	Aleaxander	gho34566	123456789112345	✓
	Hamillton			
115.	Aleaxander	code22246	1234567	✓
	Hamillton			
116.	Aleaxander	code22246	12345678	✓
	Hamillton			
117.	Aleaxander	code22246	12345678910	✓
	Hamillton			
118.	Aleaxander	code22246	12345678911234	✓
	Hamillton			
119.	Aleaxander	code22246	123456789112345	✓
	Hamillton			
120.	Aleaxander	pinx123456	1234567	√
	Hamillton			
	Aleaxander	pinx123456	12345678	✓
	Hamillton			
121.	Aleaxander	pinx123456	12345678910	√
	Hamillton			
122.	Aleaxander	pinx123456	12345678911234	✓
	Hamillton			
123.	Aleaxander	pinx123456	123456789112345	✓

	Hamillton			
124.	Aleaxander Hamillton	123abc	1234567	√
125.	Aleaxander Hamillton	123abc	12345678	√

4. Robust Worst Case Testing

Function 1:

Manage_Appointment (int noOfappointment)

• Constarint:

3<= noOfappointment >=10

• Boundary: noOfappointmen => 3 and 10

• **Test cases**: $7^n = 7^1 = 7$

• Input value:

Min-1=2

Min = 3

Min+1=4

Normal = 7

Max-1=9

Max = 10

Max+1=11

Case	noOfappointment	Expected output
1	2	*
2	3	✓
3	4	✓
4	7	✓

5	9	✓
6	10	√
7	11	×

× => Invalid input

Function 2:

PayBill(Double amount)

• Constraint:

300<=amount>=3000

• Boundary:

Amount => 300 and 3000

• **Test cases**: $7^n = 7^1 = 7$

• Input values:

Min-1=299

Min = 300

Min+1=301

Normal = 1800

Max-1 = 2999

Max = 3000

Max+1=3001

Case	amount	Expected output
1	299	×
2	300	✓
3	301	✓
4	1800	✓
5	2999	✓
6	3000	✓

7	7	3001	×
---	---	------	---

x => Invalid input

Function 3:

Sign-up (String name, String password, String contact_no)

• **Test cases**: $7^n = 7^3 = 343$

Constraint:

6<=name>=20 6<=password>=10

7<=contact_no>=15

Boundaries:

name = 6 and 20 password = 6 and 10 contact_no = 7 and 15

• Input values:

For name

Min-1 = Jonas

Min = Newton

Min+1= Thommas

Normal = Mark Zukerburg

Max-1 = Mahenoor Haider Ali

Max = Aleaxander Hamilton

Max+1= Hubert Blaine Grayson

For Password

min-1= 123ab

min = 123abc

min+1=567mnop

normal = gho34566

max-1 = code 22246

max = pinx 123456max+1 = putx4445556

For Contact_no

min-1= 123456

min = 1234567

min+1=12345678

normal = 12345678910max-1 = 12345678911234

max = 123456789112345

max+1=224466889977551

Case	Name	Password	Contact_no	Expected
			_	Output
1.	Jonas	123ab	123456	×
2.	Jonas	123ab	1234567	×
3.	Jonas	123ab	12345678	×
4.	Jonas	123ab	12345678910	×
5.	Jonas	123ab	12345678911234	×
6.	Jonas	123ab	123456789112345	×
7.	Jonas	123ab	224466889977551	×
8.	Jonas	123abc	123456	×
9.	Jonas	123abc	1234567	×
10.	Jonas	123abc	12345678	×
11.	Jonas	123abc	12345678910	×
12.	Jonas	123abc	12345678911234	×
13.	Jonas	123abc	123456789112345	×
14.	Jonas	123abc	224466889977551	×
15.	Jonas	567mnop	123456	×
16.	Jonas	567mnop	1234567	×

17.	Jonas	567mnop	12345678	×
18.	Jonas	567mnop	12345678910	×
19.	Jonas	567mnop	12345678911234	×
20.	Jonas	567mnop	123456789112345	×
21.	Jonas	567mnop	224466889977551	×
22.	Jonas	gho34566	123456	×
23.	Jonas	gho34566	1234567	×
24.	Jonas	gho34566	12345678	×
25.	Jonas	gho34566	12345678910	×
26.	Jonas	gho34566	12345678911234	×
27.	Jonas	gho34566	123456789112345	×
28.	Jonas	gho34566	224466889977551	×
29.	Jonas	code22246	123456	×
30.	Jonas	code22246	1234567	×
31.	Jonas	code22246	12345678	×
32.	Jonas	code22246	12345678910	×
33.	Jonas	code22246	12345678911234	×
34.	Jonas	code22246	123456789112345	×
35.	Jonas	code22246	224466889977551	×
36.	Jonas	pinx123456	123456	×
37.	Jonas	pinx123456	1234567	×
38.	Jonas	pinx123456	12345678	×
39.	Jonas	pinx123456	12345678910	×
40.	Jonas	pinx123456	12345678911234	×
41.	Jonas	pinx123456	123456789112345	×
42.	Jonas	pinx123456	224466889977551	×
43.	Jonas	putx4445556	123456	×
44.	Jonas	putx4445556	1234567	×
45.	Jonas	putx4445556	12345678	*
46.	Jonas	putx4445556	12345678910	*
47.	Jonas	putx4445556	12345678911234	*
48.	Jonas	putx4445556	123456789112345	*
49.	Jonas	putx4445556	224466889977551	*
50.	Newton	123ab	123456	*
51.	Newton	123ab	1234567	*
52.	Newton	123ab	12345678	*
53.	Newton	123ab	12345678910	*
54.	Newton	123ab	12345678911234	×

55.	Newton	123ab	123456789112345	×
56.	Newton	123ab	224466889977551	×
57.	Newton	123abc	123456	×
58.	Newton	123abc	1234567	✓
59.	Newton	123abc	12345678	✓
60.	Newton	123abc	12345678910	✓
61.	Newton	123abc	12345678911234	✓
62.	Newton	123abc	123456789112345	✓
63.	Newton	123abc	224466889977551	✓
64.	Newton	567mnop	123456	×
65.	Newton	567mnop	1234567	✓
66.	Newton	567mnop	12345678	✓
67.	Newton	567mnop	12345678910	✓
68.	Newton	567mnop	12345678911234	✓
69.	Newton	567mnop	123456789112345	✓
70.	Newton	567mnop	224466889977551	✓
71.	Newton	gho34566	123456	×
72.	Newton	gho34566	1234567	✓
73.	Newton	gho34566	12345678	✓
74.	Newton	gho34566	12345678910	✓
75.	Newton	gho34566	12345678911234	✓
76.	Newton	gho34566	123456789112345	✓
77.	Newton	gho34566	224466889977551	✓
78.	Newton	code22246	123456	×
79.	Newton	code22246	1234567	✓
80.	Newton	code22246	12345678	✓
81.	Newton	code22246	12345678910	✓
82.	Newton	code22246	12345678911234	✓
83.	Newton	code22246	123456789112345	✓
84.	Newton	code22246	224466889977551	✓
85.	Newton	pinx123456	123456	×
86.	Newton	pinx123456	1234567	✓
87.	Newton	pinx123456	12345678	✓
88.	Newton	pinx123456	12345678910	✓
89.	Newton	pinx123456	12345678911234	✓
90.	Newton	pinx123456	123456789112345	✓

0.4	3.7		2211660000=====	
91.	Newton	pinx123456	224466889977551	✓
92.	Newton	putx4445556	123456	×
93.	Newton	putx4445556	1234567	×
94.	Newton	putx4445556	12345678	×
95.	Newton	putx4445556	12345678910	×
96.	Newton	putx4445556	12345678911234	×
97.	Newton	putx4445556	123456789112345	×
98.	Newton	putx4445556	224466889977551	×
99.	Thommas	123ab	123456	×
100.	Thommas	123ab	1234567	×
101.	Thommas	123ab	12345678	×
102.	Thommas	123ab	12345678910	×
103.	Thommas	123ab	12345678911234	×
104.	Thommas	123ab	123456789112345	×
105.	Thommas	123ab	224466889977551	×
106.	Thommas	123abc	123456	×
107.	Thommas	123abc	1234567	✓
108.	Thommas	123abc	12345678	✓
109.	Thommas	123abc	12345678910	✓
110.	Thommas	123abc	12345678911234	✓
111.	Thommas	123abc	123456789112345	✓
112.	Thommas	123abc	224466889977551	✓
113.	Thommas	567mnop	123456	×
114.	Thommas	567mnop	1234567	✓
115.	Thommas	567mnop	12345678	✓
116.	Thommas	567mnop	12345678910	✓
117.	Thommas	567mnop	12345678911234	✓
118.	Thommas	567mnop	123456789112345	✓
119.	Thommas	567mnop	224466889977551	✓
120.	Thommas	gho34566	123456	×
121.	Thommas	gho34566	1234567	√
122.	Thommas	gho34566	12345678	√
123.	Thommas	gho34566	12345678910	√
124.	Thommas	gho34566	12345678911234	√
125.	Thommas	gho34566	123456789112345	√
126.	Thommas	gho34566	224466889977551	√
127.	Thommas	code22246	123456	×
128.	Thommas	code22246	1234567	✓
120.	THOMMAN	10002222	1201007	I

129. Thommas code22246 12345678					
131.	129.	Thommas	code22246	12345678	✓
132	130.	Thommas	code22246	12345678910	✓
133. Thommas code22246 224466889977551 ✓ 134. Thommas pinx123456 1234567 ✓ 135. Thommas pinx123456 12345678 ✓ 136. Thommas pinx123456 12345678910 ✓ 137. Thommas pinx123456 12345678910 ✓ 138. Thommas pinx123456 12345678911234 ✓ 139. Thommas pinx123456 123456789112345 ✓ 140. Thommas putx4445556 1234567 141. Thommas putx4445556 1234567 142. Thommas putx4445556 1234567 × 143. Thommas putx4445556 1234567 × 144. Thommas putx4445556 12345678 × 144. Thommas putx4445556 12345678910 × 145. Thommas putx4445556 12345678910 × 146. Thommas putx4445556 12345678911234 × 147. Thommas putx4445556 12345678911234 × 148. Mark 123ab 123456 × 149. Mark 123ab 1234567 × 2ukerburg 150. Mark 123ab 12345678 × 151. Mark 123ab 12345678910 × 152. Wark 123ab 12345678910 × 153. Mark 123ab 12345678910 × 154. Mark 123ab 12345678911234 × 155. Mark 123ab 12345678911234 × 2ukerburg 155. Mark 123ab 123456789112345 × 156. Mark 123ab 1234567 × 2ukerburg 157. Mark 123ab 1234567 × 2ukerburg 158. Mark 123ab 123456789112345 × 159. Mark 123ab 123456789112345 × 150. Mark 123ab 123456789112345 × 151. Mark 123ab 123456789112345 × 152. Mark 123ab 123456789112345 × 153. Mark 123ab 123456789112345 × 154. Mark 123ab 123456789112345 × 2ukerburg 157. Mark 123ab 1234567 × 2ukerburg 158. Mark 123ab 123456789112345 × 2ukerburg 159. Mark 123ab 12345678912345 × 2ukerburg 159. Mark 123ab 1	131.	Thommas	code22246	12345678911234	✓
134. Thommas pinx123456 1234567	132.	Thommas	code22246	123456789112345	✓
135.	133.	Thommas	code22246	224466889977551	✓
136.	134.	Thommas	pinx123456	123456	×
137. Thommas pinx123456 12345678910 \footnote{\sqrt{2}} 138. Thommas pinx123456 12345678911234 \footnote{\sqrt{2}} 139. Thommas pinx123456 123456789112345 \footnote{\sqrt{2}} 140. Thommas pinx123456 224466889977551 \footnote{\sqrt{2}} 141. Thommas putx4445556 1234567 \footnote{\sqrt{2}} \footnote{\sqrt{2}} \footnote{\sqrt{2}} 141. Thommas putx4445556 1234567 \footnote{\sqrt{2}} \sqrt	135.	Thommas	pinx123456	1234567	✓
138. Thommas pinx123456 12345678911234 V 139. Thommas pinx123456 123456789112345 V 140. Thommas pinx123456 224466889977551 V 141. Thommas putx4445556 123456 X 142. Thommas putx4445556 1234567 X 143. Thommas putx4445556 12345678 X 144. Thommas putx4445556 12345678910 X 145. Thommas putx4445556 12345678911234 X 146. Thommas putx4445556 12345678911234 X 147. Thommas putx4445556 123456789112345 X 148. Mark 123ab 123456 X 149. Mark 123ab 1234567 X 150. Mark 123ab 12345678910 X 151. Mark 123ab 12345678910 X 152. Mark 123ab 12345678910 X 153. Mark 123ab 12345678911234 X 154. Mark 123ab 123456789112345 X 155. Mark 123ab 123456789112345 X 156. Mark 123ab 1234567 X 157. Mark 123ab 1234567 X 158. Mark 123ab 1234567 X 159. Mark 123ab 123456789112345 X 150. Mark 123ab 123456789112345 X 150. Mark 123ab 1234567 X 150. Mark 123ab 12345678 X 150. Mark 123ab	136.	Thommas	pinx123456	12345678	✓
139.	137.	Thommas	pinx123456	12345678910	✓
140. Thommas pinx123456 224466889977551 ✓ 141. Thommas putx4445556 1234567 × 142. Thommas putx4445556 12345678 × 143. Thommas putx4445556 12345678910 × 144. Thommas putx4445556 12345678911234 × 145. Thommas putx4445556 123456789112345 × 146. Thommas putx4445556 123456789112345 × 147. Thommas putx4445556 123456789112345 × 148. Mark 123ab 1234567 × 149. Mark 123ab 1234567 × 150. Mark 123ab 12345678 × 151. Mark 123ab 12345678910 × 152. Mark 123ab 123456789112344 × 153. Mark 123ab 123456789112345 × 154. Mark 123ab 224466889977551 × 155. Mark 123ab 1234567 </td <td>138.</td> <td>Thommas</td> <td>pinx123456</td> <td>12345678911234</td> <td>✓</td>	138.	Thommas	pinx123456	12345678911234	✓
141. Thommas putx4445556 123456 ★ 142. Thommas putx4445556 1234567 ★ 143. Thommas putx4445556 12345678 ★ 144. Thommas putx4445556 12345678910 ★ 145. Thommas putx4445556 12345678911234 ★ 146. Thommas putx4445556 123456789112345 ★ 147. Thommas putx4445556 224466889977551 ★ 148. Mark 123ab 1234567 ★ 149. Mark 123ab 12345678 ★ 150. Mark 123ab 12345678 ★ 151. Mark 123ab 12345678910 ★ 152. Mark 123ab 12345678911234 ★ 153. Mark 123ab 123456789112345 ★ 154. Mark 123ab 224466889977551 ★ 155. Mark 123ab 1234567 ★ 156. Mark 123ab 1234567 ★	139.	Thommas	pinx123456	123456789112345	✓
142. Thommas putx4445556 1234567 ★ 143. Thommas putx4445556 12345678 ★ 144. Thommas putx4445556 12345678910 ★ 145. Thommas putx4445556 12345678911234 ★ 146. Thommas putx4445556 123456789112345 ★ 147. Thommas putx4445556 224466889977551 ★ 148. Mark 123ab 123456 ★ 2ukerburg 149. Mark 123ab 12345678 ★ 150. Mark 123ab 12345678 ★ 2ukerburg 151. Mark 123ab 12345678910 ★ 152. Mark 123ab 12345678911234 ★ 153. Mark 123ab 123456789112345 ★ 154. Mark 123ab 224466889977551 ★ 155. Mark 123ab 123456 ★ 156. Mark 123ab 1234567 ★ 157. Mark 123ab	140.	Thommas	pinx123456	224466889977551	✓
143. Thommas putx4445556 12345678 ★ 144. Thommas putx4445556 12345678910 ★ 145. Thommas putx4445556 12345678911234 ★ 146. Thommas putx4445556 123456789112345 ★ 147. Thommas putx4445556 224466889977551 ★ 148. Mark 123ab 123456 ★ Zukerburg 149. Mark 123ab 1234567 ★ Zukerburg 150. Mark 123ab 12345678 ★ 151. Mark 123ab 12345678910 ★ 2ukerburg 152. Mark 123ab 12345678911234 ★ 153. Mark 123ab 123456789112345 ★ 154. Mark 123ab 224466889977551 ★ 155. Mark 123ab 123456 ★ 156. Mark 123ab 1234567 ★ 157. Mark 123ab 12345678 ★	141.	Thommas	putx4445556	123456	×
144. Thommas putx4445556 12345678910 ★ 145. Thommas putx4445556 12345678911234 ★ 146. Thommas putx4445556 123456789112345 ★ 147. Thommas putx4445556 224466889977551 ★ 148. Mark 123ab 123456 ★ 2ukerburg 149. Mark 123ab 1234567 ★ 2ukerburg 150. Mark 123ab 12345678 ★ 2ukerburg 151. Mark 123ab 12345678910 ★ 152. Mark 123ab 12345678911234 ★ 2ukerburg 153. Mark 123ab 123456789112345 ★ 154. Mark 123ab 224466889977551 ★ 155. Mark 123ab 123456 ★ 156. Mark 123ab 1234567 ★ 157. Mark 123ab 12345678 ★	142.	Thommas	putx4445556	1234567	×
145. Thommas putx4445556 12345678911234 ★ 146. Thommas putx4445556 123456789112345 ★ 147. Thommas putx4445556 224466889977551 ★ 148. Mark 123ab 123456 ★ 2ukerburg 149. Mark 123ab 1234567 ★ 2ukerburg 150. Mark 123ab 12345678 ★ 151. Mark 123ab 12345678910 ★ 2ukerburg 152. Mark 123ab 12345678911234 ★ 153. Mark 123ab 123456789112345 ★ 2ukerburg 154. Mark 123ab 224466889977551 ★ 155. Mark 123ab 123456 ★ 2ukerburg 156. Mark 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓	143.	Thommas	putx4445556	12345678	×
146. Thommas putx4445556 123456789112345 ★ 147. Thommas putx4445556 224466889977551 ★ 148. Mark 123ab 123456 ★ 2ukerburg 123ab 1234567 ★ 150. Mark 123ab 12345678 ★ 2ukerburg 151. Mark 123ab 12345678910 ★ 152. Mark 123ab 12345678911234 ★ 153. Mark 123ab 123456789112345 ★ 154. Mark 123ab 224466889977551 ★ 2ukerburg 155. Mark 123abc 123456 ★ 156. Mark 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓	144.	Thommas	putx4445556	12345678910	×
147. Thommas putx4445556 224466889977551 ★ 148. Mark 123ab 123456 ★ 2ukerburg 149. Mark 123ab 1234567 ★ 150. Mark 123ab 12345678 ★ 2ukerburg 151. Mark 123ab 12345678910 ★ 152. Mark 123ab 12345678911234 ★ 2ukerburg 153. Mark 123ab 123456789112345 ★ 154. Mark 123ab 224466889977551 ★ 155. Mark 123abc 123456 ★ 156. Mark 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓	145.	Thommas	putx4445556	12345678911234	×
147. Hibbilitas pddx4443330 224460689777331 148. Mark 123ab 1234567 * 149. Mark 123ab 12345678 * 150. Mark 123ab 123456789 * 151. Mark 123ab 12345678910 * 2ukerburg 152. Mark 123ab 12345678911234 * 153. Mark 123ab 123456789112345 * 154. Mark 123ab 224466889977551 * 155. Mark 123abc 123456 * 156. Mark 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓	146.	Thommas	putx4445556	123456789112345	×
Zukerburg 123ab 1234567 ★ 150. Mark Zukerburg 123ab 12345678 ★ 151. Mark Zukerburg 123ab 12345678910 ★ 152. Mark Zukerburg 123ab 12345678911234 ★ 153. Mark Zukerburg 123ab 123456789112345 ★ 154. Mark Zukerburg 123ab 224466889977551 ★ 155. Mark Zukerburg 123abc 123456 ★ 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓	147.	Thommas	putx4445556	224466889977551	×
149. Mark Zukerburg 123ab 1234567 ★ 150. Mark Zukerburg 123ab 12345678 ★ 151. Mark Zukerburg 123ab 12345678910 ★ 152. Mark Zukerburg 123ab 12345678911234 ★ 153. Mark Zukerburg 123ab 123456789112345 ★ 154. Mark Zukerburg 123ab 224466889977551 ★ 155. Mark Zukerburg 123abc 123456 ★ 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓	148.	Mark	123ab	123456	×
Zukerburg 123ab 12345678 ★ 150. Mark Zukerburg 123ab 12345678910 ★ 151. Mark Zukerburg 123ab 12345678911234 ★ 152. Mark Zukerburg 123ab 123456789112345 ★ 153. Mark Zukerburg 123ab 224466889977551 ★ 154. Mark Zukerburg 123abc 123456 ★ 155. Mark Zukerburg 123abc 1234567 ✓ 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓		Zukerburg			
150. Mark Zukerburg 123ab 12345678	149.	Mark	123ab	1234567	×
Zukerburg 123ab 12345678910 × 151. Mark Zukerburg 123ab 12345678911234 × 152. Mark Zukerburg 123ab 123456789112345 × 153. Mark Zukerburg 123ab 224466889977551 × 154. Mark Zukerburg 123ab 224466889977551 × 155. Mark Zukerburg 123abc 123456 × 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓		Zukerburg			
151. Mark Zukerburg 123ab 12345678910 * 152. Mark Zukerburg 123ab 12345678911234 * 153. Mark Zukerburg 123ab 123456789112345 * 154. Mark Zukerburg 123ab 224466889977551 * 155. Mark Zukerburg 123abc 123456 * 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓	150.	Mark	123ab	12345678	×
Zukerburg 152. Mark Zukerburg 123ab 12345678911234 ★ 153. Mark Zukerburg 123ab 123456789112345 ★ 154. Mark Zukerburg 123ab 224466889977551 ★ 155. Mark Zukerburg 123abc 123456 ★ 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓		Zukerburg			
152. Mark Zukerburg 123ab 12345678911234 ★ 153. Mark Zukerburg 123ab 123456789112345 ★ 154. Mark Zukerburg 123ab 224466889977551 ★ 155. Mark Zukerburg 123abc 123456 ★ 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓	151.	Mark	123ab	12345678910	×
Zukerburg 153. Mark Zukerburg 123ab 123456789112345 ★ 154. Mark Zukerburg 123ab 224466889977551 ★ 155. Mark Zukerburg 123abc 123456 ★ 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓		Zukerburg			
153. Mark Zukerburg 123ab 123456789112345 ★ 154. Mark Zukerburg 123ab 224466889977551 ★ 155. Mark Zukerburg 123abc 123456 ★ 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓	152.		123ab	12345678911234	×
Zukerburg 154. Mark Zukerburg 123ab 224466889977551 ★ 155. Mark Zukerburg 123abc 123456 ★ 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓		Zukerburg			
154. Mark Zukerburg 123ab 224466889977551 ★ 155. Mark Zukerburg 123abc 123456 ★ 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓	153.		123ab	123456789112345	×
Zukerburg 155. Mark Zukerburg 123abc 123456 ★ 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓					
155. Mark Zukerburg 123abc 123456 ★ 156. Mark Zukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓	154.		123ab	224466889977551	×
Zukerburg 156. Mark 2ukerburg 123abc 1234567 ✓ 157. Mark 123abc 12345678 ✓					
156. Mark 123abc 1234567 ✓ Zukerburg 157. Mark 123abc 12345678 ✓	155.		123abc	123456	×
Zukerburg 157. Mark 123abc 12345678 ✓					
157. Mark 123abc 12345678 ✓	156.		123abc	1234567	✓
Zukerburg	157.		123abc	12345678	✓
		Zukerburg			

158.	Mark	123abc	12345678910	✓
1.50	Zukerburg	100.1	10015(50011001	
159.	Mark	123abc	12345678911234	✓
1.60	Zukerburg	100.1	10015(500110015	
160.	Mark	123abc	123456789112345	✓
	Zukerburg			
161.	Mark	123abc	224466889977551	✓
	Zukerburg			
162.	Mark	567mnop	123456	*
	Zukerburg			
163.	Mark	567mnop	1234567	✓
	Zukerburg			
164.	Mark	567mnop	12345678	✓
	Zukerburg			
165.	Mark	567mnop	12345678910	✓
	Zukerburg			
166.	Mark	567mnop	12345678911234	✓
	Zukerburg			
167.	Mark	567mnop	123456789112345	✓
	Zukerburg			
168.	Mark	567mnop	224466889977551	✓
	Zukerburg	_		
169.	Mark	gho34566	123456	×
	Zukerburg			
170.	Mark	gho34566	1234567	✓
	Zukerburg			
171.	Mark	gho34566	12345678	✓
	Zukerburg			
172.	Mark	gho34566	12345678910	✓
	Zukerburg			
173.	Mark	gho34566	12345678911234	✓
	Zukerburg			
174.	Mark	gho34566	123456789112345	✓
	Zukerburg			
175.	Mark	gho34566	224466889977551	✓
	Zukerburg	3 : 3 : 2 0		
176.	Mark	code22246	123456	*
1,0.	Zukerburg			
177.	Mark	code22246	1234567	✓

	Zukerburg			
178.	Mark	code22246	12345678	✓
	Zukerburg			
179.	Mark	code22246	12345678910	✓
	Zukerburg			
180.	Mark	code22246	12345678911234	✓
	Zukerburg			
181.	Mark	code22246	123456789112345	✓
	Zukerburg			
182.	Mark	code22246	224466889977551	✓
	Zukerburg			
183.	Mark	pinx123456	123456	×
	Zukerburg			
184.	Mark	pinx123456	1234567	✓
	Zukerburg			
185.	Mark	pinx123456	12345678	✓
	Zukerburg			
186.	Mark	pinx123456	12345678910	✓
	Zukerburg			
187.	Mark	pinx123456	12345678911234	✓
	Zukerburg			
188.	Mark	pinx123456	123456789112345	✓
	Zukerburg			
189.	Mark	pinx123456	224466889977551	✓
	Zukerburg			
190.	Mark	putx4445556	123456	×
	Zukerburg			
191.	Mark	putx4445556	1234567	×
	Zukerburg			
192.	Mark	putx4445556	12345678	×
	Zukerburg			
193.	Mark	putx4445556	12345678910	×
	Zukerburg			
194.	Mark	putx4445556	12345678911234	×
	Zukerburg			
195.	Mark	putx4445556	123456789112345	×
	Zukerburg			
196.	Mark	putx4445556	224466889977551	×
	Zukerburg			

Mahenoor	123ab	123456	×
	123ab	1234567	×
Haider Ali			
Mahenoor	123ab	12345678	×
	123ab	12345678910	×
Haider Ali			
Mahenoor	123ab	12345678911234	×
Haider Ali			
Mahenoor	123ab	123456789112345	
Haider Ali			×
Mahenoor	123ab	224466889977551	×
Haider Ali			
Mahenoor	123abc	123456	×
Haider Ali			
Mahenoor	123abc	1234567	✓
Haider Ali			
Mahenoor	123abc	12345678	✓
Haider Ali			
Mahenoor	123abc	12345678910	✓
Haider Ali			
Mahenoor	123abc	12345678911234	✓
Haider Ali			
Mahenoor	123abc	123456789112345	✓
Haider Ali			
Mahenoor	123abc	224466889977551	✓
Haider Ali			
Mahenoor	567mnop	123456	×
Haider Ali			
Mahenoor	567mnop	1234567	✓
Haider Ali	1		
Mahenoor	567mnop	12345678	✓
Haider Ali	1		
Mahenoor	567mnop	12345678910	✓
Haider Ali	1		
+	567mnop	12345678911234	√
	567mnon	123456789112345	✓
	Haider Ali Mahenoor	Haider Ali Mahenoor Haider Ali	Haider Ali

	Haider Ali			
217.	Mahenoor	567mnop	224466889977551	✓
	Haider Ali			
218.	Mahenoor	gho34566	123456	×
	Haider Ali			
219.	Mahenoor	gho34566	1234567	✓
	Haider Ali			
220.	Mahenoor	gho34566	12345678	✓
	Haider Ali			
221.	Mahenoor	gho34566	12345678910	✓
	Haider Ali			
222.	Mahenoor	gho34566	12345678911234	✓
	Haider Ali			
223.	Mahenoor	gho34566	123456789112345	✓
	Haider Ali			
224.	Mahenoor	gho34566	224466889977551	✓
	Haider Ali			
225.	Mahenoor	code22246	123456	×
	Haider Ali			
226.	Mahenoor	code22246	1234567	✓
	Haider Ali			
227.	Mahenoor	code22246	12345678	✓
	Haider Ali			
228.	Mahenoor	code22246	12345678910	✓
	Haider Ali			
229.	Mahenoor	code22246	12345678911234	✓
	Haider Ali			
230.	Mahenoor	code22246	123456789112345	✓
	Haider Ali			
231.	Mahenoor	code22246	224466889977551	✓
	Haider Ali			
232.	Mahenoor	pinx123456	123456	×
	Haider Ali			
233.	Mahenoor	pinx123456	1234567	✓
	Haider Ali	_		
234.	Mahenoor	pinx123456	12345678	✓
	Haider Ali			
235.	Mahenoor	pinx123456	12345678910	✓
	Haider Ali			

227	Mahamaan	nin122456	10245670011024	✓
236.	Mahenoor	pinx123456	12345678911234	•
	Haider Ali	. 100176	100 45 (500440045	
237.	Mahenoor	pinx123456	123456789112345	✓
	Haider Ali			
238.	Mahenoor	pinx123456	224466889977551	✓
	Haider Ali			
239.	Mahenoor	putx4445556	123456	×
	Haider Ali			
240.	Mahenoor	putx4445556	1234567	×
	Haider Ali			
241.	Mahenoor	putx4445556	12345678	×
	Haider Ali			
242.	Mahenoor	putx4445556	12345678910	×
	Haider Ali			
243.	Mahenoor	putx4445556	12345678911234	×
	Haider Ali			
244.	Mahenoor	putx4445556	123456789112345	×
	Haider Ali			
245.	Mahenoor	putx4445556	224466889977551	×
	Haider Ali			
246.	Aleaxander	123ab	123456	*
	Hamillton			
247.	Aleaxander	123ab	1234567	×
	Hamillton			
248.	Aleaxander	123ab	12345678	*
	Hamillton			
249.	Aleaxander	123ab	12345678910	×
	Hamillton			
250.	Aleaxander	123ab	12345678911234	×
	Hamillton			
251.	Aleaxander	123ab	123456789112345	×
	Hamillton			
252.	Aleaxander	123ab	224466889977551	×
	Hamillton			
253.	Aleaxander	123abc	123456	*
	Hamillton		120100	
254.	Aleaxander	123abc	1234567	✓
254.	Hamillton	123400	123 1307	
255.	Aleaxander	123abc	12345678	√
455.	Micanalluci	123000	12373070	·

	Hamillton			
256.	Aleaxander Hamillton	123abc	12345678910	✓
257.	Aleaxander Hamillton	123abc	12345678911234	√
258.	Aleaxander Hamillton	123abc	123456789112345	√
259.	Aleaxander Hamillton	123abc	224466889977551	√
260.	Aleaxander Hamillton	567mnop	123456	×
261.	Aleaxander Hamillton	567mnop	1234567	√
262.	Aleaxander Hamillton	567mnop	12345678	√
263.	Aleaxander Hamillton	567mnop	12345678910	✓
264.	Aleaxander Hamillton	567mnop	12345678911234	✓
265.	Aleaxander Hamillton	567mnop	123456789112345	✓
266.	Aleaxander Hamillton	567mnop	224466889977551	✓
267.	Aleaxander Hamillton	gho34566	123456	×
268.	Aleaxander Hamillton	gho34566	1234567	√
269.	Aleaxander Hamillton	gho34566	12345678	√
270.	Aleaxander Hamillton	gho34566	12345678910	✓
271.	Aleaxander Hamillton	gho34566	12345678911234	✓
272.	Aleaxander Hamillton	gho34566	123456789112345	✓
273.	Aleaxander Hamillton	gho34566	224466889977551	✓
274.	Aleaxander Hamillton	code22246	123456	×

275.	Aleaxander Hamillton	code22246	1234567	✓
276.	Aleaxander Hamillton	code22246	12345678	√
277.	Aleaxander Hamillton	code22246	12345678910	✓
278.	Aleaxander Hamillton	code22246	12345678911234	✓
279.	Aleaxander Hamillton	code22246	123456789112345	✓
280.	Aleaxander Hamillton	code22246	224466889977551	√
281.	Aleaxander Hamillton	pinx123456	123456	×
282.	Aleaxander Hamillton	pinx123456	1234567	✓
283.	Aleaxander Hamillton	pinx123456	12345678	✓
284.	Aleaxander Hamillton	pinx123456	12345678910	✓
285.	Aleaxander Hamillton	pinx123456	12345678911234	✓
286.	Aleaxander Hamillton	pinx123456	123456789112345	√
287.	Aleaxander Hamillton	pinx123456	224466889977551	√
288.	Aleaxander Hamillton	putx4445556	123456	×
289.	Aleaxander Hamillton	putx4445556	1234567	×
290.	Aleaxander Hamillton	putx4445556	12345678	×
291.	Aleaxander Hamillton	putx4445556	12345678910	×
292.	Aleaxander Hamillton	putx4445556	12345678911234	×
293.	Aleaxander Hamillton	putx4445556	123456789112345	*
294.	Aleaxander	putx4445556	224466889977551	×

	Hamillton			
295.	Hubert	123ab	123456	×
	Blaine			
	Grayson			
296.	Hubert	123ab	1234567	×
	Blaine			
	Grayson			
297.	Hubert	123ab	12345678	×
	Blaine			
	Grayson			
298.	Hubert	123ab	12345678910	×
	Blaine			
	Grayson			
299.	Hubert	123ab	12345678911234	×
	Blaine			
	Grayson			
300.	Hubert	123ab	123456789112345	×
	Blaine			
	Grayson			
301.	Hubert	123ab	224466889977551	×
	Blaine			
	Grayson			
302.	Hubert	123abc	123456	×
	Blaine			
	Grayson			
303.	Hubert	123abc	1234567	✓
	Blaine			
	Grayson			
304.	Hubert	123abc	12345678	✓
	Blaine			
	Grayson			
305.	Hubert	123abc	12345678910	✓
	Blaine			
	Grayson			
306.	Hubert	123abc	12345678911234	✓
	Blaine			
	Grayson			
307.	Hubert	123abc	123456789112345	✓
	Blaine			

	Grayson			
308.	Hubert	123abc	224466889977551	✓
	Blaine			
	Grayson			
309.	Hubert	567mnop	123456	×
	Blaine			
	Grayson			
310.	Hubert	567mnop	1234567	✓
	Blaine			
	Grayson			
311.	Hubert	567mnop	12345678	✓
	Blaine			
	Grayson			
312.	Hubert	567mnop	12345678910	✓
	Blaine			
	Grayson			
313.	Hubert	567mnop	12345678911234	✓
	Blaine			
	Grayson			
314.	Hubert	567mnop	123456789112345	✓
	Blaine			
	Grayson			
315.	Hubert	567mnop	224466889977551	✓
	Blaine			
	Grayson			
316.	Hubert	gho34566	123456	×
	Blaine			
	Grayson			
317.	Hubert	gho34566	1234567	✓
	Blaine			
	Grayson			
318.	Hubert	gho34566	12345678	✓
	Blaine			
	Grayson			
319.	Hubert	gho34566	12345678910	\checkmark
	Blaine			
	Grayson			
320.	Hubert	gho34566	12345678911234	✓
	Blaine			

	Grayson			
321.	Hubert	gho34566	123456789112345	✓
	Blaine			
	Grayson			
322.	Hubert	gho34566	224466889977551	✓
	Blaine			
	Grayson			
323.	Hubert	code22246	123456	×
	Blaine			
	Grayson			
324.	Hubert	code22246	1234567	✓
	Blaine			
	Grayson			
325.	Hubert	code22246	12345678	✓
	Blaine			
	Grayson			
326.	Hubert	code22246	12345678910	✓
	Blaine			
	Grayson			
327.	Hubert	code22246	12345678911234	\checkmark
	Blaine			
	Grayson			
328.	Hubert	code22246	123456789112345	\checkmark
	Blaine			
	Grayson			
329.	Hubert	code22246	224466889977551	\checkmark
	Blaine			
	Grayson			
330.	Hubert	pinx123456	123456	*
	Blaine			
	Grayson			
331.	Hubert	pinx123456	1234567	\checkmark
	Blaine			
	Grayson			
332.	Hubert	pinx123456	12345678	\checkmark
	Blaine			
	Grayson			
333.	Hubert	pinx123456	12345678910	\checkmark
	Blaine			

	Grayson			
334.	Hubert	pinx123456	12345678911234	✓
	Blaine			
	Grayson			
335.	Hubert	pinx123456	123456789112345	✓
	Blaine			
	Grayson			
336.	Hubert	pinx123456	224466889977551	✓
	Blaine			
	Grayson			
337.	Hubert	putx4445556	123456	×
	Blaine			
	Grayson			
338.	Hubert	putx4445556	1234567	×
	Blaine			
	Grayson			
339.	Hubert	putx4445556	12345678	×
	Blaine			
	Grayson			
340.	Hubert	putx4445556	12345678910	×
	Blaine			
	Grayson			
341.	Hubert	putx4445556	12345678911234	×
	Blaine			
	Grayson			
342.	Hubert	putx4445556	123456789112345	×
	Blaine			
	Grayson			
343.	Hubert	putx4445556	224466889977551	×
	Blaine			
	Grayson			

^{✓ =&}gt; Valid input × => Invalid input