Суммирование

```bash
GNU nano 6.2
#!/bin/bash

sum() {
  num=$1
  result=0

  for ((i=1; i<=num; i++)); do
    ((result += i))
  done

  echo $result
}

result=$(sum 2)
echo $result

result=$(sum 8)
echo $result
```

```
nikita@DESKTOP-BNU31HG:~$ ./zad11.sh
3
36
```

Строка из уникальных букв

```bash
GNU nano 6.2
#!/bin/bash

longest() {
  s1="$1"
  s2="$2"

  combined=$(echo "$s1$s2" | grep -o . | sort -u | tr -d '\n')
  echo "$combined"
}

result=$(longest "xyaabbbccccdefw" "xxxxyyyyabklmopq")
echo $result

result=$(longest "abcdefghijklmnopqrstuvwxyz" "abcdefghijklmnopqrstuvwxyz")
echo $result
```

```
nikita@DESKTOP-BNU31HG:~$ ./zad21.sh
abcdefklmopqwxy
abcdefghijklmnopqrstuvwxyz
```

Джон и друзья

```bash
#!/bin/bash

guests="Ann:Russel;John:Gates;Paul:Wahl;Alex:Tolkien;Ann:Bell;Lewis:Kern;Sarah:Rudd;Sydney:Korn;Madison:Meta"

sorted_guests=$(echo "$guests" | tr ';' '\n' | tr ':' ',' | tr '[:lower:]' '[:upper:]' | sort -t, -k2,2 -k1,1)

output=""
while read -r line; do
  output+="($line)"
done <<< "$sorted_guests"

echo "$output"
```

```
nikita@DESKTOP-BNU31HG:~$ ./zad31.sh
(ANN,BELL)(JOHN,GATES)(LEWIS,KERN)(SYDNEY,KORN)(MADISON,META)(SARAH,RUDD)(ANN,RUSSEL)(ALEX,TOLKIEN)(PAUL,WAHL)
```