#include <iostream>

using namespace std;

bool f(int x)

{

int counter = 0;

for (int i = 2; i <= x / 2; i++)

{

if (x % i == 0)

counter++;

}

if (counter == 0) return 1;

else return 0;

}

bool g(int x, int y)

{

int temp = 0;

do

{

temp = x % 10;

x /= 10;

if (temp == y)

return 1;

} while (x != 0);

return 0;

}

int main()

{

int n = 0, d=0;

int sum = 0;

do

{

cout << "Unesite n:" << endl;

cin >> n;

} while (n<100 || n >1000);

do

{

cout << "Unesite d:" << endl;

cin >> d;

} while (d < 0 || d >9);

for (int i = 2; i <= n; i++)

{

sum += (int)f(i) \* (int)g(i, d);

}

cout << "Rezultat C je jednako " << sum;

}

#include <iostream>

using namespace std;

bool f(int x, int d1, int d2)

{

bool p1=false, p2=false;

int temp = 0;

do

{

temp = x % 10;

x /= 10;

if (temp == d1) p1 = true;

if (temp == d2) p2 = true;

} while (x != 0);

if (p1 == true && p2 == true) return 1;

else return 0;

}

int main()

{

int n = 0, d1 = 0, d2 = 0;

int C = 0;

do

{

cout << "Unesite n:\n";

cin >> n;

} while (n < 100 || n>1000);

do

{

cout << "Unesite n:\n";

cin >> d1;

} while (d1 < 0 || d1>9);

do

{

cout << "Unesite n:\n";

cin >> d2;

} while (d2 < 0 || d2>9);

for (int i = 0; i <= n; i++)

{

C += (int)f(i, d1, d2);

}

cout << "Rezultat C je jednako: " << C;

}

#include <iostream>

using namespace std;

//2.X3

// 546 -> temp=6 && x=54 && sum=6 -> temp = 4 x=5 sum=10 -> temp=5 x=0 sum=15

bool s(int x, int y)

{

int sum = 0;

int temp = 0;

do

{

temp = x % 10;

x /= 10;

sum += temp;

} while (x != 0);

if (sum == y) return 1;

else return 0;

}

int main()

{

int n = 0, b=0;

int C = 0;

do

{

cout << "Unesite n:\n";

cin >> n;

} while (n < 0 || n>1000);

do

{

cout << "Unesite b:\n";

cin >> b;

} while (b < 0 || b>30);

for (int i = 0; i <= n; i++)

{

C += (int)s(i, b);

}

cout << "Rezultat C je " << C;

}

#include <iostream>

using namespace std;

//2.X4

int f1(int x, int d)

{

int counter=0;

int temp = 0;

do

{

temp = x % 10;

x /= 10;

if (temp == d) counter++;

} while(x!=0);

return counter;

}

bool f2(int x, int y)

{

return (x == y);

}

int main()

{

int n = 0, c1=0, c2=0;

int C = 0;

do

{

cout << "Unesite n:\n";

cin >> n;

} while (n < 0 || n>10000);

do

{

cout << "Unesite c1:\n";

cin >> c1;

} while (c1 < 0 || c1>9);

do

{

cout << "Unesite c2:\n";

cin >> c2;

} while (c2 < 0 || c2>4);

for (int i = 0; i <= n; i++)

C += (int)f2(c2, f1(i, c1));

cout << "Rezultat C je " << C;

}

#include <iostream>

using namespace std;

//2.X5

int max(int x, int y)

{

if (x > y) return x;

else return y;

}

int min(int x, int y)

{

if (x < y) return x;

else return y;

}

int main()

{

int n = 0, c1=0, c2=0;

int sum1 = 0, sum2 = 0;

do

{

cout << "Unesite n:\n";

cin >> n;

} while (n<1);

for (int i = -5; i <= 5; i++)

{

sum2 = 0;

for (int j = 1; j <= n; j++)

{

sum2 += min(5, max(0, i \* j));

}

sum1 += sum2;

}

cout << "Rezultat P je " << sum1;

}

#include <iostream>

using namespace std;

//2.X6

bool isPrime(int x)

{

for (int i = 2; i <= x / 2; i++)

if (x % i == 0) return 0;

return 1;

}

int reverse(int x)

{

int temp = 0;

int r = 0;

do

{

temp = x % 10;

x /= 10;

r = r \* 10 + temp;

} while (x != 0);

return r;

}

int main()

{

int n = 0, c1=0, c2=0;

do

{

cout << "Unesite n:\n";

cin >> n;

} while (n<10 || n>1000);

for (int i = 2; i <= n; i++)

{

if (isPrime(i) == true && isPrime(reverse(i)) == true)

cout << i << " ";

}

}

#include <iostream>

using namespace std;

//2.X7

bool s(int x, int y)

{

int sum = 0;

int temp = 0;

do

{

temp = x % 10;

x /= 10;

sum += temp;

} while (x != 0);

if (sum == y) return 1;

else return 0;

}

int reverse(int x)

{

int temp = 0;

int r = 0;

do

{

temp = x % 10;

x /= 10;

r = r \* 10 + temp;

} while (x != 0);

return r;

}

int main()

{

int n = 0, b;

do

{

cout << "Unesite n:\n";

cin >> n;

} while (n < 0 || n>1000);

do

{

cout << "Unesite b:\n";

cin >> b;

} while (b < 0);

for (int i = 0; i <= n; i++)

{

if (i==reverse(i) && s(i,b))

cout << i << " ";

}

}

#include <iostream>

using namespace std;

int main()

{

int x = 0;

cin >> x;

int tempx = x, temp = 0;

int counter\_oe=0;

int counter\_pos = 0;

double res = 0;

do

{

tempx /= 10;

counter\_oe++;

} while (tempx != 0);

do

{

temp = x % 10;

x /= 10;

counter\_pos++;

if (counter\_oe % 2 == 0 && ((counter\_pos==counter\_oe/2 + 1) || (counter\_pos == counter\_oe / 2)))

res += temp;

else if((counter\_oe % 2 == 1) && (counter\_pos==counter\_oe/2 + 1))

res = temp;

} while (x!=0);

if(counter\_oe%2==0)

cout << res/2;

else cout << res;

}

#include <iostream>

using namespace std;

//2.X8

// iz broja a i b se uzimaju parni i stavljaju u a, a u b se stavljaju neparni

// tempa = a = 123 -> temp=3 tempa=12 b = 10 \* 0 + 3 = 3 -> temp=2 tempa=1 a = 10 \* 0 + 2 = 2 -> temp=1 tempa=0 b = 3\*10 + 1 = 31

void f(int& a, int& b)

{

int tempa = a;

int tempb = b;

int temp=0;

a = 0;

b = 0;

do

{

temp = tempa % 10;

tempa /= 10;

if (temp % 2 == 0) a = a \* 10 + temp;

if (temp % 2 == 1) b = b \* 10 + temp;

} while (tempa != 0);

do

{

temp = tempb % 10;

tempb /= 10;

if (temp % 2 == 0) a = a \* 10 + temp;

if (temp % 2 == 1) b = b \* 10 + temp;

} while (tempb != 0);

}

int main()

{

int a = 0, b = 0;

do

{

cout << "Unesite a:" << endl;

cin >> a;

} while (a<0 || a>10000);

do

{

cout << "Unesite b:" << endl;

cin >> b;

} while (b < 0 || b>10000);

f(a, b);

cout << "Vrijednost a je: " << a << endl;

cout << "Vrijednost b je: " << b << endl;

}

#include <iostream>

#include <cmath>

using namespace std;

//2.X9

// iz broja a i b se uzimaju parni i stavljaju u a, a u b se stavljaju neparni

// tempa = a = 123 -> temp=3 tempa=12 b = 10 \* 0 + 3 = 3 -> temp=2 tempa=1 a = 10 \* 0 + 2 = 2 -> temp=1 tempa=0 b = 3\*10 + 1 = 31

int f(int x, int p, int d)

{

int tempx = x;

int temp = 0;

int cn\_dig = log10(x) + 1;

int cn\_dig\_temp = cn\_dig;

do

{

temp = tempx % 10;

tempx /= 10;

if (p == cn\_dig\_temp--)

x = x - (temp \* (int)pow(10, cn\_dig-p)) + (d \* (int)pow(10, cn\_dig-p));

} while (tempx != 0);

return x;

}

int main()

{

int x = 0, p = 0, d=0;

do

{

cout << "Unesite x:" << endl;

cin >> x;

} while (x<0);

do

{

cout << "Unesite p:" << endl;

cin >> p;

} while (p < 0);

do

{

cout << "Unesite d:" << endl;

cin >> d;

} while (d < 0 || d>9);

cout << "Rezultat je: " << f(x, p, d);

}