Deszyfrowanie

- m ≡ c^d (mod N)
- c = 49
- N = 55
- d=27
- 49^27 (mod 55) = 43181145673964365640352930977077280875522 48849 (mod 55) = **14 = m**

Encoded Key:

```
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAyB8IehMJs+roy3yTxPb+6kUbfyQRim3a6AxFdjbLO8Zvvd12
n2OreICknB9Zme9kyZN7nkM7CdOMJ4uEqiVpc1VSagAGucbsfuFYGlRt6ZCE5z/m
cFOD9223JPjmH3aLbvtUk1znqnc1zljlBwlpFFHLOqCwaO+7NK6PfOkB7u3ax7fx
1pUmed6PUv+qQCls+tACmboRRpZlOjuXc+8hsQsUSofQePt7htSEnxMw5pMkbw57
sPvtDIwKiLS4MhHrvIJ6n0aQ0Z6jryAkqKbXDt0jl63c11bW9aefXMxxpClKg/WA
EpmI08fJA2OKHfFKCAJ394kk9yvNbnqzT6y/FwIDAQABAoIBAHFWAfsA5THcDFOS
Di4ypFQRJ21uA/EeHif1K0Gz7o2/6HDjB9dlHyvXfKJeruQbTD1NJWmQMdNy16Fd
xpiF756955rYwPZdznpdLQRcZJMuodZFvkBHTCnJHTv3Kn0PKhCEjnWW3C0Sropa
lfrSPYygdjSR5NbJToCbi+/2Fn41fjt0LTDiBvBTHF1OpxR7jpRfhbm95tmic86K
HiczMDtj/1468Apm2ZDngNjG66HV02Ajcyc8+SMQaSLVxaLlcAVQVfRwvUXno1Jp
f5gI16sUXs2LPKpcLfJjKxBS21tDNTHd6lbmfYE8yOLaN0UfgOZyJ6+2FK8Ypxhv
rhy8H2ECgYEA7xVbkr9gFQZmWnaGGrJrBahVdIO+k2+C4MF2kWJoCkak17S7+MoR
uQOcewk5DY998B+fdSXCA35fMITHgF8KUKkRdJGphHJZQnaW2C7foM/p6FCC7Pf+
U8irrCwlM9MPMMf36XYVkyQrHIcv8cU5WgYhD6wOl6v8ibsABM/EqSsCgYEA1kfu
yGQoro4iWB4IlJS0pLx2O+QmeK8lTX08ML1mJ2ZJugLKx0k6IJfnRZcDMBvWu+zW
```

Decoded Key:

```
Private-Key: (2048 bit)
modulus:
    00:c8:1f:08:7a:13:09:b3:ea:e8:cb:7c:93:c4:f6:
    fe:ea:45:1b:7f:24:11:8a:6d:da:e8:0c:45:76:36:
    cb:3b:c6:6f:bd:dd:76:9f:63:ab:79:30:a4:9c:1f:
    59:99:ef:64:c9:93:7b:9e:43:3b:09:d3:8c:27:8b:
    84:aa:25:69:73:55:52:6a:00:06:b9:c6:ec:7e:e1:
    58:1a:54:6d:e9:90:84:e7:3f:e6:70:53:83:f7:6d:
    b7:24:f8:e6:1f:76:8b:6e:fb:54:93:5c:e7:aa:77:
    35:ce:58:e5:07:09:69:14:51:cb:3a:a0:b0:68:ef:
    bb:34:ae:8f:7c:e9:01:ee:ed:da:c7:b7:f1:d6:95:
    26:79:de:8f:52:ff:aa:40:29:6c:fa:d0:02:99:ba:
    11:46:96:65:3a:3b:97:73:ef:21:b1:0b:14:4a:87:
    d0:78:fb:7b:86:d4:84:9f:13:30:e6:93:24:6f:0e:
    7b:b0:fb:ed:0c:8c:0a:88:b4:b8:32:11:eb:bc:82:
    7a:9f:46:90:d1:9e:a3:af:20:24:a8:a6:d7:0e:dd:
```

Zakodowany i odkodowany klucz RSA