qwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnm

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| --- |
| German Enigma Simulator  Team Two: Code Book  7/18/2012  MHenderson |

German Enigma Simulator Code Book

“A Cloud-Based Working Simulation for Modern Cryptography”

Oscar Bernal, Jim Esposito, Melony Henderson, Richard Robinson

Computer Information Systems Graduate

Program Night Students

ECPI University

|  |
| --- |
| Code Book Legend (Codebuch Legende): |
|  |
| Schlüssel key |
| Walzenlage rolling position |
| Ringstellung ring position |
| L left rotor |
| C center rotor |
| R right rotor |
| Steckerverbindungen plug connections |
| Rückstrahler reflector |
|  |

***Ringstellung***

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**01 02 03 04 05 06 07 08 09 10 11 12 13**

**A B C D E F G H I J K L M**

**14 15 16 17 18 19 20 21 22 23 24 25 26**

**N O P Q R S T U V W X Y Z**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Schlüssel | | Walzenlage | | Ringstellung | | Steckerverbindungen | | Rückstrahler |
|  | L C R | | L C R | |  | | Select B or C | |
| 31 | V I II | | 24 05 22 | | A:Y,B:N,C:E,D:V,F:H,G:W,K:U,L:Q,M:P,R:T | | - - | |
| 30 | II V III | | 04 06 19 | | B:R,C:N,D:J,E:X,G:U,H:W,I:L,K:Z,M:T,O:Q | | - - | |
| 29 | I III II | | 04 01 03 | | A:Z,B:H,C:O,D:J,E:R,G:S,K:X,M:P,Q:T,W:Y | | - - | |
| 28 | III V IV | | 13 21 02 | | A:F,B:J,D:Q,E:I,G:O,K:L,M:S,N:U,P:T,V:X | | - - | |
| 27 | IV V III | | 07 04 17 | | A:U,D:L,E:I,F:T,G:Y,H:J,K:W,M:O,P:R,V:Z | | - - | |
| 26 | I IV V | | 19 19 25 | | B:O,C:U,D:E,F:V,G:X,I:Z,J:Q,K:L,M:T,R:Y | | - - | |
| 25 | I IV II | | 02 14 05 | | A:X,B:M,C:Z,D:S,E:U,F:Q,H:P,L:V,N:Y,R:T | | - - | |
| 24 | IV I V | | 21 04 14 | | B:G,C:L,E:F,H:K,J:O,M:P,N:T,R:Y,S:W,U:X | | - - | |
| 23 | I V II | | 17 08 04 | | B:M,C:O,D:P,E:G,F:U,J:Y,L:N,Q:R,T:Z,V:X | | - - | |
| 22 | I IV III | | 18 08 18 | | B:S,C:X,D:I,E:V,F:W,H:Q,J:L,K:Z,P:T,R:U | | - - | |
| 21 | I V IV | | 01 08 24 | | A:U,C:V,D:M,E:I,F:K,G:Y,H:L,J:S,O:X,P:Q | | - - | |
| 20 | V I IV | | 01 17 09 | | A:K,B:O,C:S,D:T,E:Z,G:X,H:I,J:V,L:U,N:Y | | - - | |
| 19 | II III IV | | 21 04 14 | | A:Z,B:J,C:X,D:Y,E:F,I:M,K:O,L:T,P:U,R:V | | - - | |
| 18 | IV V I | | 04 16 11 | | A:M,C:S,D:L,E:K,F:P,G:J,H:U,I:Z,Q:T,R:Y | | - - | |
| 17 | V III II | | 23 11 05 | | A:C,B:D,F:N,G:W,H:U,I:X,J:K,L:M,P:V,R:S | | - - | |
| 16 | IV I III | | 07 15 08 | | A:H,B:G,C:J,E:S,K:Z,M:O,N:V,P:W,Q:R,U:X | | - - | |
| 15 | III I II | | 07 07 23 | | B:N,C:H,D:Z,E:F,G:R,K:P,L:X,M:T,Q:U,V:W | | - - | |
| 14 | II I V | | 11 25 16 | | A:O,D:V,E:N,F:I,G:R,H:P,K:T,L:S,M:W,Q:U | | - - | |
| 13 | IV V I | | 23 23 02 | | B:F,D:T,E:Q,G:J,I:V,K:P,L:X,M:U,N:Z,R:Y | | - - | |
| 12 | IV I II | | 10 16 05 | | A:X,B:C,D:Y,E:R,G:S,I:P,L:W,M:Z,N:O,Q:V | | - - | |
| 11 | I IV II | | 01 01 25 | | A:T,B:J,C:N,E:P,H:Z,K:V,L:O,M:S,Q:U,X:Y | | - - | |
| 10 | I V IV | | 07 20 20 | | A:Y,B:K,C:S,D:U,E:R,F:G,I:L,J:Q,M:Z,O:W | | - - | |
| 9 | III I II | | 05 10 23 | | B:D,C:J,E:Z,F:O,G:T,I:U,L:N,Q:S,V:Y,W:X | | - - | |
| 8 | I IV II | | 04 22 13 | | B:Q,D:S,E:Y,F:M,G:Z,H:J,I:V,K:L,O:R,U:X | | - - | |
| 7 | III V I | | 10 23 21 | | A:V,B:Y,D:U,F:K,G:N,J:T,L:R,M:W,O:X,S:Z | | - - | |
| 6 | II III V | | 16 13 04 | | A:V,B:P,C:H,F:J,I:U,K:Z,L:O,N:S,Q:W,T:Y | | - - | |
| 5 | I III IV | | 14 26 24 | | A:Q,B:D,C:L,E:M,F:J,H:Z,K:Y,N:U,O:R,S:V | | - - | |
| 4 | IV III I | | 25 22 16 | | A:U,C:O,E:K,F:H,I:Q,J:V,L:R,M:N,S:Z,T:W | | - - | |
| 3 | II I III | | 17 15 16 | | A:K,B:J,C:V,D:L,E:R,G:Q,H:M,I:O,T:Y,X:Z | | - - | |
| 2 | IV V III | | 24 03 05 | | A:F,B:Z,D:R,E:N,G:P,H:V,I:X,J:Y,K:Q,O:T | | - - | |
| 1 | I IV V | | 01 15 19 | | A:J,D:M,F:P,G:Z,I:T,K:U,L:R,N:X,O:Q,V:W | | - - | |
| 0 | V III IV | | 21 23 15 | | <enter up to 10 plugs (Steckerverbindungen)> | | - - | |
| -1 | III II I | | 25 10 08 | | <enter up to 10 plugs (Steckerverbindungen)> | | - - | |
|  |  | |  | |  | |  | |

(Rijmenants, 2004-2012)