

ENIGMA HOMEWORK FALL 2007

Use the simulator to decode the following three messages (write your answers on this page). If you have problems, see the hints on the next page.

Message 1: Use the simulator in its default setting (as you get it initially: rotor order I II III, rings set at 01 (A), plugboard with no letters connected), except for: Rotor settings: P O O.

XDAKT TBOXV DCAQI QDPFI PVLLC FOMVG LMYZK YS

Message 2: Settings:

Rotors: I III V

Rotor settings: M H C

Ring settings: B A G (in numbers this is 02 01 07)

Plugboard: FD AO TG

JBZDS NKIOR OABDZ YMSEQ KKA AI UXXEM HMTCC

Message 3: Use the same settings as for message 2. However this message uses a message key; see Singh ch. 4 if you don't know how this works.

GYUUJ VRCSB LPZNN CKKPK SKDQV ATVXR NRD

Some hints:

- (1). If you enter a wrong letter then there are three possibilities:
 - (i) Start over: Reset the rotors to their initial setting. If you're using the text box, then hit the backspace key (while the mouse is over the machine itself, not the textbox) to clear it. Then start again from the beginning.
 - (ii) Don't try to correct the wrong letter; just keep on going and the rest will come out OK.
 - (iii) An alternate approach, if you have a cool head: Move the fast (rightmost) rotor backwards one step, then enter the correct letter and keep on going. If this doesn't work, it may be because the middle rotor needs to be set backwards too.)
- (2). Omitting a letter or adding one will completely garble the text. The simplest solution is (i) above.

By the way, using the textbox speeds things up considerably.