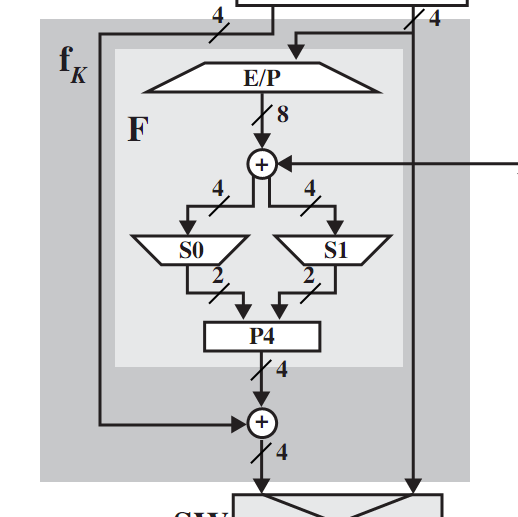
Question 1:

1. Copy the diagram of the function *fK* of the Simplified DES Encryption details [figure number] and label each wire with the corresponding variable name from the Sage code that implements SDES Encryption (see example [example number]).
2. Copy the diagram of the Simplified DES Encryption Key Generation [figure number] and label each wire with the corresponding variable names from the Sage code that implements the SDES Key Generation.

Solution:

1. Copy the diagram of the function *fK* of the Simplified DES Encryption details [figure number] and label each wire with the corresponding variable name from the Sage code that implements SDES Encryption (see example [example number]).



left\_block

temp\_block5

temp\_block4

S1\_out

right\_block

K

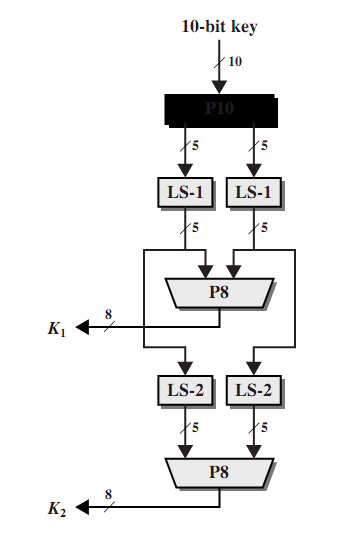
S1\_out

right\_temp\_block2

left\_temp\_block2

temp\_block1

1. Copy the diagram of the Simplified DES Encryption Key Generation [figure number] and label each wire with the corresponding variable names from the Sage code that implements the SDES Key Generation.



K2right

K2left

K1

K1right

K1left

right\_temp\_K

left\_temp\_K

K