; Gastaldi Paolo

; s277393

; lab\_02, program\_3.s

; 22-10-19

.data

X: .byte 1, 2, 3, 4, 5, 6, 7, 8

.byte 1, 2, 3, 4, 5, 6, 7, 8

.byte 1, 2, 3, 4, 5, 6, 7, 8

.byte 1, 2, 3, 4, 5, 6

even\_counter: .byte 0

odd-counter. .byte 0

.text

; r1: indice ciclo

; r2: indice vettore

; r3: contatore pari

; r4: contatore dispari

main:

daddi r1, r0, 30

dadd r2, r0, r0

dadd r3, r0, r0

dadd r4, r0, r0

lb r6, X(r2)

daddi r2, r2, 1

loop:

lb r5, X(r2)

daddi r2, r2, 1

xor r7, r5, r6

srl r8, r7, 1

lb r6, X(r2)

daddi r2, r2, 1

xor r7, r5, r6

bnez r1, loop

sb r3, even\_counter

sb r4, odd-counter

halt