```
MOVS        R1, #1
LDR.W       R0, =0x40059000 ; GPIO Port B
LDR.W       R2, =0x1000020
LDR         R2, [R2]
LDR         R2, [R2, #0x2C]
BLX         R2          ; ROM_GPIOPinRead
                        ; Reads the values present
                        ; of the specified pin(s).
```