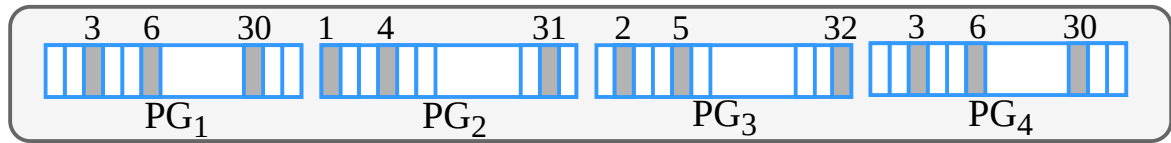| allocated buffer | guarnary |

a. VMA_1 (buffers < 128 bytes): 1 sub-page out of 2 is protected.
All pages (PG_i) have the same pattern.

b. VMA_2 (buffers > 128 bytes but < 256 bytes): 1 sub-page out of 3 is protected.
There are 3 distincts patterns (PG_1, PG_2 & PG_3) along the VMA.