BRANDON CROFTS, Teachers College, Columbia University Counting Solutions of $a^2+pbc=0$ in a Cube

For a prime p, let $s_p(n)$ be the number of integer triples (a,b,c) which satisfy $a^2+pbc=0$, where a,b,c are bounded by natural number n, and p is prime. Some sequences of this form have had limited numbers of terms contributed to the OEIS, while others have had no contributions at all. A non-recursive, generalized algorithm was theorized and developed, to produce the first n terms of the sequence relating to the equation $a^2+pbc=0$.