Classical Gram-Schmidt 1: **for** j = 1 to n **do** 2: $u_i = a_i$ for i = 1 to j - 1 do 3: $r_{ij} = q_i^* a_i$ 4: 5: $u_i = u_i - r_{ii}q_i$ end for 6: $r_{ii} = ||u_i||_2$ 7: $q_i = u_i/r_{ii}$ 8: 9: end for