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(* ДЗ-1  норма порожденная многограннком *)
(* многогоранник симметричен по коодинатнам плоскостям *)
(* заданы вершины в первом октанте (положительном) *)
(* надо проверить неравенство треугольника для векторов *)
(* {-4,8,-7}  и  {7,-8,-5}  *)
(* найти набольшее и наименьшее значение евклидовои нормы на векторах,*)
(* имеющих норму 1 в норме, порожденной многогранником *)
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{var, 1}
{A, {5, 7, 0}, B, {5, 0, 3}, H, {0, 7, 5}, AA, {8, 0, 0}, BB, {0, 6, 0}, HH, {0, 0, 7}}
{var, 2}
{A, {4, 6, 0}, B, {6, 0, 6}, H, {0, 4, 3}, AA, {6, 0, 0}, BB, {0, 7, 0}, HH, {0, 0, 6}}
{var, 3}
{A, {3, 4, 0}, B, {3, 0, 7}, H, {0, 4, 6}, AA, {6, 0, 0}, BB, {0, 4, 0}, HH, {0, 0, 6}}
{var, 4}
{A, {4, 7, 0}, B, {4, 0, 5}, H, {0, 6, 3}, AA, {6, 0, 0}, BB, {0, 5, 0}, HH, {0, 0, 3}}
{var, 5}
{A, {3, 7, 0}, B, {4, 0, 4}, H, {0, 3, 3}, AA, {10, 0, 0}, BB, {0, 4, 0}, HH, {0, 0, 3}}
{var, 6}
{A, {5, 6, 0}, B, {7, 0, 4}, H, {0, 6, 4}, AA, {10, 0, 0}, BB, {0, 0, 0}, HH, {0, 0, 5}}
{var, 7}
{A, {7, 5, 0}, B, {6, 0, 7}, H, {0, 5, 7}, AA, {12, 0, 0}, BB, {0, 9, 0}, HH, {0, 0, 10}}
{var, 8}
{A, {5, 7, 0}, B, {4, 0, 6}, H, {0, 6, 7}, AA, {8, 0, 0}, BB, {0, 0, 0}, HH, {0, 0, 8}}
{var, 9}
{A, {7, 5, 0}, B, {3, 0, 5}, H, {0, 3, 6}, AA, {8, 0, 0}, BB, {0, 2, 0}, HH, {0, 0, 6}}
{var, 10}
{A, {7, 4, 0}, B, {7, 0, 7}, H, {0, 5, 4}, AA, {9, 0, 0}, BB, {0, 14, 0}, HH, {0, 0, 7}}
{var, 11}
{A, {6, 7, 0}, B, {3, 0, 7}, H, {0, 6, 7}, AA, {7, 0, 0}, BB, {0, 5, 0}, HH, {0, 0, 9}}
{var, 12}
{A, {5, 6, 0}, B, {3, 0, 3}, H, {0, 7, 6}, AA, {5, 0, 0}, BB, {0, 4, 0}, HH, {0, 0, 6}}
{var, 13}
{A, {6, 3, 0}, B, {6, 0, 4}, H, {0, 7, 3}, AA, {8, 0, 0}, BB, {0, 6, 0}, HH, {0, 0, 4}}
{var, 14}
{A, {3, 5, 0}, B, {4, 0, 7}, H, {0, 4, 6}, AA, {7, 0, 0}, BB, {0, 8, 0}, HH, {0, 0, 8}}
{var, 15}
{A, {7, 6, 0}, B, {3, 0, 7}, H, {0, 4, 6}, AA, {9, 0, 0}, BB, {0, 9, 0}, HH, {0, 0, 7}}
{var, 16}
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{A, {4, 5, 0}, B, {6, 0, 3}, H, {0, 6, 4}, AA, {5, 0, 0}, BB, {0, 7, 0}, HH, {0, 0, 4}}

{var, 17}

{A, {5, 6, 0}, B, {3, 0, 3}, H, {0, 6, 4}, AA, {6, 0, 0}, BB, {0, 5, 0}, HH, {0, 0, 4}}

{var, 18}

{A, {5, 7, 0}, B, {5, 0, 5}, H, {0, 4, 5}, AA, {6, 0, 0}, BB, {0, 8, 0}, HH, {0, 0, 8}}

{var, 19}

{A, {4, 3, 0}, B, {5, 0, 7}, H, {0, 5, 4}, AA, {7, 0, 0}, BB, {0, 6, 0}, HH, {0, 0, 5}}

{var, 20}

{A, {3, 7, 0}, B, {7, 0, 6}, H, {0, 6, 3}, AA, {4, 0, 0}, BB, {0, 5, 0}, HH, {0, 0, 7}}

{var, 21}

{A, {4, 4, 0}, B, {4, 0, 7}, H, {0, 7, 5}, AA, {5, 0, 0}, BB, {0, 6, 0}, HH, {0, 0, 5}}

{var, 22}

{A, {7, 7, 0}, B, {4, 0, 3}, H, {0, 6, 3}, AA, {8, 0, 0}, BB, {0, 1, 0}, HH, {0, 0, 4}}

{var, 23}

{A, {7, 6, 0}, B, {3, 0, 6}, H, {0, 6, 6}, AA, {7, 0, 0}, BB, {0, 5, 0}, HH, {0, 0, 8}}

{var, 24}

{A, {6, 6, 0}, B, {7, 0, 5}, H, {0, 7, 4}, AA, {6, 0, 0}, BB, {0, 3, 0}, HH, {0, 0, 7}}

{var, 25}

{A, {4, 6, 0}, B, {3, 0, 6}, H, {0, 7, 7}, AA, {4, 0, 0}, BB, {0, 6, 0}, HH, {0, 0, 6}}

{var, 26}

{A, {3, 5, 0}, B, {3, 0, 4}, H, {0, 6, 7}, AA, {3, 0, 0}, BB, {0, 1, 0}, HH, {0, 0, 5}}

{var, 27}

{A, {7, 5, 0}, B, {5, 0, 4}, H, {0, 6, 6}, AA, {7, 0, 0}, BB, {0, 6, 0}, HH, {0, 0, 8}}

{var, 28}

{A, {5, 6, 0}, B, {4, 0, 7}, H, {0, 7, 6}, AA, {5, 0, 0}, BB, {0, 9, 0}, HH, {0, 0, 7}}

{var, 29}

{A, {5, 6, 0}, B, {6, 0, 4}, H, {0, 7, 5}, AA, {9, 0, 0}, BB, {0, 8, 0}, HH, {0, 0, 9}}

{var, 30}

{A, {6, 7, 0}, B, {3, 0, 3}, H, {0, 6, 7}, AA, {5, 0, 0}, BB, {0, 3, 0}, HH, {0, 0, 7}}