Grilă C#:

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Se dau următoarele secvențe de cod:

i)

class Program

{

delegate bool NumberPredicate(int x);

public static bool isPerfectSquare(int x)

{

return Math.Abs(x) == Math.Pow(Math.Floor(Math.Sqrt(Math.Abs(x))), 2);

}

static void Main(string[] args)

{

int[] numbers = { -25, -8, -4, 49, 24, 74, 87, 100 };

NumberPredicate numberPredicate = new NumberPredicate(isPerfectSquare);

var result = numbers

.Where(x => isPerfectSquare(x))

.Select(x => Math.Abs(x))

.OrderByDescending(x => x)

.Select(x => x.ToString())

.ToList()

.Aggregate((x, y) => x + y);

Console.WriteLine(result);

}

}

ii)

class Program

{

delegate bool NumberPredicate(int x);

public static bool isPerfectSquare(int x)

{

return Math.Abs(x) == Math.Pow(Math.Floor(Math.Sqrt(Math.Abs(x))), 2);

}

static void Main(string[] args)

{

int[] numbers = { -25, -8, -4, 49, 24, 74, 87, 100 };

NumberPredicate numberPredicate = new NumberPredicate(isPerfectSquare);

var result = numbers

.Where(x => isPerfectSquare(x))

.OrderByDescending(x => x)

.Select(x => Math.Abs(x).ToString())

.ToList()

.Aggregate((x, y) => x + y);

Console.WriteLine(result);

}

}

iii)

class Program

{

delegate bool NumberPredicate(int x);

public static bool isPerfectSquare(int x)

{

return Math.Abs(x) == Math.Pow(Math.Floor(Math.Sqrt(Math.Abs(x))), 2);

}

static void Main(string[] args)

{

int[] numbers = { -25, -8, -4, 49, 24, 74, 87, 100 };

NumberPredicate numberPredicate = new NumberPredicate(isPerfectSquare);

var result = numbers

.Where(x => isPerfectSquare(x))

.OrderByDescending(x => x)

.Select(x => x.ToString())

.ToList()

.Aggregate((x, y) => x + y);

Console.WriteLine(result);

}

}

iv)

class Program

{

delegate bool NumberPredicate(int x);

public static bool isPerfectSquare(int x)

{

return Math.Abs(x) == Math.Pow(Math.Floor(Math.Sqrt(Math.Abs(x))), 2);

}

static void Main(string[] args)

{

int[] numbers = { -25, 8, 4, -49, 24, 74, 87, -100 };

NumberPredicate numberPredicate = new NumberPredicate(isPerfectSquare);

var result = numbers

.Where(x => isPerfectSquare(x))

.OrderBy(x => x)

.Select(x => Math.Abs(x).ToString())

.ToList()

.Aggregate((x, y) => x + y);

Console.WriteLine(result);

}

}

Care dintre secvențele de mai sus determină afișarea pe consolă a numărului 10049254?

Variante de răspuns:

1. ii)
2. i), iv)
3. iii)
4. i)
5. iv)