ITEM 21: Pointry to return a Date:.... reference when Jajon must return class Rational pussic : Rational (int numerator = 0) int demoninator=1). private: inthod; friend const Rational Operator & Const Rational & The Const Rational (Rhs) This version of operator of is returning 20 return skjerts that are to be multiplied Rational a (152); dalignal b(3,5): Kational e= a & b ; Hc should be 3/10

its not possible to expect that there already exist rational number with value 3/10 That means , we have to create a new object. -) It can be created in two ways -> on the stack on the heap => Creat on Stack > define local variable Const Rational & specator + (const Rational lhs, Const Rational of the). Rational result (lhs. no ths. n.) ely. of * shs. of): leturn result. us can reject is approach sime me had to awaid ctor / call. Broblem with above program is that referre Sesult is returned from functo I levelt is local object le gets des troy rulan frunch exists exit.

Date: => constructing object on heaps & returning reference to it const Rational & operator * (const Rational Illes, Const Rational dals) Rational + result = new Rational (lus, no blus, no lhs.d + she.d); return & result => Still have to call ctor & who will delete the object conjused by new? Rational W, 2, 4, 2; W= x + 4 * Z 11 same as operator + (operator + (n,y), Z Resulte in resource leak since me dut have pts hidden believed the References belong returned from call to Voperator +. O -> shother may - static object

Const Rational & operator of Const Rationald lla const Pational Cohs Static Rational result return result) Problem > Consider kelow client code. kool operator == Const Rational Chs 9 Const Rational Ashs). Pational ag bocod; (axb)=(cxd)) lalways results in thre. about statement is same as if (operator = (operator *(asb) experentor or (cgd))

Date:
when operator == is called , there are sactive calls to operator + i.e (a,b) & (c,d).
Thus operator == asked to compare value of static Retional object inside operator to with Static Rational object of operator to
faire de almay equal.
Problem > me don't know the size of m.
= > Right way
Object is to have that functor return a new a new object.
in line court fational operator of court Rational bly.
Jeturn Rational (lbs. n + shs. n , Als. d + shs. ot).