MSSV	Tên sinh viên
16520015	Nguyễn Xuân An
16521014	Võ Ngọc Quyến
17520178	Bùi Thị Thùy Trang
17520505	*Hà Đăng Hoàng*
18521471	Nguyễn Trọng Thuận

Lab 02: Bài tập thực hành – câu 4

Danh sách tất cả các tập phổ biến thỏa yêu câu:

Minsupp = 0.1

Kích thước	Số lượng
Size of set of large itemsets L(1)	49
Size of set of large itemsets L(2)	167
Size of set of large itemsets L(3)	120
Size of set of large itemsets L(4)	25
Size of set of large itemsets L(5)	2

Size of set of large itemsets L(1): 49

Large Itemsets L(1):

co=y 5465

ca=y 11676

ga=y 5942

ct=y 4391

pr=y 4781

tx=y 8483

la=y 5154

tn=y 4900

pe=y 5515

mn=y 3929

de=y 3630

hi=y 3804

me=y 3969

md=y 5108

ma=y 4963

ut=y 6041

mo=y 4638

mi=y 4734

mt=y 4800

qc=y 4272

ms=y 4815

va=y 5638

al=y 5702

ar=y 4610

vt=y 3713

il=y 5167

in=y 4440

ia=y 3652

az=y 6778

id=y 5129

nh=y 3635

ks=y 3869

nj=y 4822

nm=y 6403

nc=y 5926

ny=y 5773

nv=y 5670

wa=y 5654

bc=y 4875

wi=y 4321

wv=y 4062

fl=y 6621

wy=y 4710

on=y 5068

ok=y 4651

oh=y 4772

sc=y 5432

ky=y 4555

or=y 7028

Size of set of large itemsets L(2): 167

Large Itemsets L(2):

co=y ut=y 4005

co=y nm=y 3932

co=y wy=y 3841

ca=y ut=y 3852

ca=y az=y 3868

ca=y id=y 3564

ca=y nv=y 4701

ca=y wa=y 4086

ca=y or=y 5522

ga=y tx=y 3612

ga=y la=y 3989

ga=y tn=y 3979

ga=y md=y 3663

ga=y ms=y 4219

ga=y va=y 4251

ga=y al=y 4931

ga=y ar=y 3566

ga=y nc=y 4833

ga=y fl=y 4252

ga=y sc=y 4821

ga=y ky=y 3560

ct=y pe=y 4010

ct=y md=y 3521

ct=y ma=y 3999

ct=y mi=y 3498

ct=y va=y 3526

ct=y nj=y 3747

ct=y ny=y 4132

ct=y oh=y 3549

tx=y la=y 4204

tx=y ms=y 3660

tx=y al=y 3746

tx=y ar=y 3668

tx=y nm=y 3924

tx=y fl=y 3650

tx=y ok=y 4104

tx=y sc=y 3479

la=y ms=y 4077

la=y al=y 4091

la=y ar=y 3575

la=y nc=y 3701

la=y fl=y 3845

la=y sc=y 3784

tn=y pe=y 3682

tn=y md=y 3747

tn=y mo=y 3529

tn=y va=y 4228

tn=y al=y 3880

tn=y ar=y 3565

tn=y il=y 3695

tn=y nc=y 4207

tn=y oh=y 3563

tn=y sc=y 3695

tn=y ky=y 3986

pe=y md=y 4235

pe=y ma=y 4211

pe=y mi=y 3957

pe=y va=y 4323

pe=y il=y 4077

pe=y in=y 3795

pe=y nj=y 4259

pe=y nc=y 3961

pe=y ny=y 4740

pe=y wi=y 3610

pe=y wv=y 3722

pe=y on=y 3923

pe=y oh=y 4209

pe=y ky=y 3651

me=y ny=y 3613

md=y ma=y 3642

md=y va=y 4455

md=y al=y 3491

md=y il=y 3737

md=y in=y 3535

md=y nj=y 4005

md=y nc=y 4162

md=y ny=y 4055

md=y wv=y 3614

md=y oh=y 3764

md=y sc=y 3537

md=y ky=y 3628

ma=y mi=y 3636

ma=y va=y 3652

ma=y il=y 3556

ma=y nj=y 3858

ma=y ny=y 4372

ma=y on=y 3653

ma=y oh=y 3654

ut=y az=y 3858

ut=y nm=y 3596

ut=y nv=y 4019

ut=y wy=y 3495

mo=y va=y 3511

mo=y ar=y 3664

mo=y il=y 3979

mo=y in=y 3489

mo=y ky=y 3553

mi=y il=y 3789

mi=y in=y 3554

mi=y ny=y 4085

mi=y wi=y 3816

mi=y on=y 4007

mi=y oh=y 3758

mt=y id=y 3906

mt=y wa=y 3535

mt=y wy=y 3819

mt=y or=y 3495

qc=y on=y 3816

ms=y va=y 3566

ms=y al=y 4343

ms=y nc=y 3912

ms=y fl=y 3769

ms=y sc=y 3959

va=y al=y 4047

va=y il=y 3903

va=y in=y 3653

va=y nj=y 4036

va=y nc=y 4854

va=y ny=y 4089

va=y wv=y 3760

va=y oh=y 3883

va=y sc=y 4169

va=y ky=y 3938

al=y ar=y 3620

al=y nc=y 4475

al=y fl=y 4161

al=y sc=y 4498

al=y ky=y 3489

ar=y nc=y 3480

ar=y ok=y 3561

vt=y ny=y 3510

il=y in=y 4134

il=y nj=y 3651

il=y nc=y 3612

il=y ny=y 3985

il=y wi=y 3644

il=y on=y 3581

il=y oh=y 4085

il=y ky=y 3765

in=y ny=y 3677

in=y oh=y 3905

in=y ky=y 3561

az=y nm=y 4723

id=y wa=y 3969

id=y or=y 4199

nj=y nc=y 3763

nj=y ny=y 4254

nj=y oh=y 3711

nc=y ny=y 3758

nc=y wv=y 3485

nc=y fl=y 3696

nc=y oh=y 3550

nc=y sc=y 4800

nc=y ky=y 3768

ny=y wi=y 3709

ny=y wv=y 3483

ny=y on=y 4094

ny=y oh=y 4100

nv=y or=y 3500

wa=y bc=y 3908

wa=y or=y 4959

bc=y or=y 3679

wi=y on=y 3667

wv=y oh=y 3557

fl=y sc=y 3911

on=y oh=y 3565

oh=y ky=y 3647

Size of set of large itemsets L(3): 120

Large Itemsets L(3):

ca=y wa=y or=y 3963

ga=y la=y ms=y 3668

ga=y la=y al=y 3763

ga=y la=y nc=y 3485

ga=y la=y sc=y 3596

ga=y tn=y va=y 3648

ga=y tn=y al=y 3603

ga=y tn=y nc=y 3724

ga=y tn=y sc=y 3517

ga=y md=y va=y 3556

ga=y md=y nc=y 3551

ga=y ms=y al=y 4049

ga=y ms=y nc=y 3750

ga=y ms=y fl=y 3538

ga=y ms=y sc=y 3827

ga=y va=y al=y 3788

ga=y va=y nc=y 4124

ga=y va=y sc=y 3882

ga=y al=y nc=y 4246

ga=y al=y fl=y 3852

ga=y al=y sc=y 4322

ga=y nc=y fl=y 3512

ga=y nc=y sc=y 4447

ga=y fl=y sc=y 3726

ct=y pe=y ma=y 3784

ct=y pe=y nj=y 3618

ct=y pe=y ny=y 3908

ct=y ma=y nj=y 3562

ct=y ma=y ny=y 3879

ct=y nj=y ny=y 3672

tx=y la=y ms=y 3487

la=y ms=y al=y 3767

la=y ms=y sc=y 3503

la=y al=y fl=y 3491

la=y al=y sc=y 3561

la=y nc=y sc=y 3483

tn=y pe=y va=y 3522

tn=y md=y va=y 3657

tn=y md=y nc=y 3531

tn=y va=y al=y 3502

tn=y va=y nc=y 3964

tn=y va=y sc=y 3480

tn=y va=y ky=y 3647

tn=y al=y nc=y 3524

tn=y nc=y sc=y 3580

tn=y nc=y ky=y 3555

pe=y md=y ma=y 3497

pe=y md=y va=y 3919

pe=y md=y il=y 3500

pe=y md=y nj=y 3749

pe=y md=y nc=y 3626

pe=y md=y ny=y 3847

pe=y md=y oh=y 3630

pe=y ma=y mi=y 3479

pe=y ma=y va=y 3510

pe=y ma=y nj=y 3699

pe=y ma=y ny=y 4057

pe=y ma=y oh=y 3537

pe=y mi=y ny=y 3776

pe=y mi=y on=y 3529

pe=y mi=y oh=y 3536

pe=y va=y il=y 3550

pe=y va=y nj=y 3754

pe=y va=y nc=y 3773

pe=y va=y ny=y 3869

pe=y va=y wv=y 3503

pe=y va=y oh=y 3684

pe=y il=y in=y 3597

pe=y il=y nj=y 3515

pe=y il=y ny=y 3742

pe=y il=y oh=y 3734

pe=y in=y ny=y 3520

pe=y in=y oh=y 3602

pe=y nj=y ny=y 4011

pe=y nj=y oh=y 3624

pe=y nc=y ny=y 3531

pe=y ny=y on=y 3744

pe=y ny=y oh=y 3900

md=y ma=y ny=y 3534

md=y va=y il=y 3505

md=y va=y nj=y 3764

md=y va=y nc=y 4026

md=y va=y ny=y 3710

md=y va=y wv=y 3485

md=y va=y oh=y 3538

md=y va=y ky=y 3513

md=y nj=y nc=y 3528

md=y nj=y ny=y 3687

ma=y mi=y ny=y 3540

ma=y va=y ny=y 3521

ma=y nj=y ny=y 3760

ma=y ny=y on=y 3537

ma=y ny=y oh=y 3553

mi=y ny=y wi=y 3488

mi=y ny=y on=y 3663

mi=y ny=y oh=y 3538

mi=y wi=y on=y 3492

ms=y al=y nc=y 3733

ms=y al=y fl=y 3599

ms=y al=y sc=y 3805

ms=y nc=y sc=y 3698

va=y al=y nc=y 3864

va=y al=y sc=y 3682

va=y il=y oh=y 3502

va=y nj=y nc=y 3612

va=y nj=y ny=y 3671

va=y nc=y ny=y 3577

va=y nc=y sc=y 4068

va=y nc=y ky=y 3614

va=y ny=y oh=y 3501

al=y nc=y sc=y 4148

al=y fl=y sc=y 3638

il=y in=y ny=y 3489

il=y in=y oh=y 3724

il=y ny=y oh=y 3624

in=y ny=y oh=y 3478

id=y wa=y or=y 3693

nj=y ny=y oh=y 3556

nc=y fl=y sc=y 3522

wa=y bc=y or=y 3560

Size of set of large itemsets L(4): 25

Large Itemsets L(4):

ga=y la=y ms=y al=y 3549

ga=y tn=y va=y nc=y 3559

ga=y md=y va=y nc=y 3484

ga=y ms=y al=y nc=y 3635

ga=y ms=y al=y sc=y 3719

ga=y ms=y nc=y sc=y 3612

ga=y va=y al=y nc=y 3694

ga=y va=y al=y sc=y 3579

ga=y va=y nc=y sc=y 3825

ga=y al=y nc=y sc=y 4038

ga=y al=y fl=y sc=y 3532

ct=y pe=y ma=y ny=y 3726

ct=y pe=y nj=y ny=y 3571

ct=y ma=y nj=y ny=y 3524

tn=y md=y va=y nc=y 3489

pe=y md=y va=y nj=y 3555

pe=y md=y va=y nc=y 3550

pe=y md=y va=y ny=y 3581

pe=y md=y nj=y ny=y 3570

pe=y ma=y nj=y ny=y 3640

pe=y va=y nj=y ny=y 3554

pe=y il=y ny=y oh=y 3497

pe=y nj=y ny=y oh=y 3502

ms=y al=y nc=y sc=y 3572

va=y al=y nc=y sc=y 3608

Size of set of large itemsets L(5): 2

Large Itemsets L(5):

ga=y ms=y al=y nc=y sc=y 3519

ga=y va=y al=y nc=y sc=y 3529