Main-Logo

Project Report

A LaTeX class

First Author *et al.*

Sponsor A

Sponsor B

Sponsor C

Sponsor D

Sponsor E

目 录

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chapter A: Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

劳仑衣普桑，认至将指点效则机，最你更枝。想极整月正进好志次回总般，段然取向使张规军证回，世市总李率英茄持伴。用阶千样响领交出，器程办管据家元写，名其直金团。化达书据始价算每百青，金低给天济办作照明，取路豆学丽适市确。如提单各样备再成农各政，设头律走克美技说没，体交才路此在杠。响育油命转处他住有，一须通给对非交矿今该，花象更面据压来。与花断第然调，很处已队音，程承明邮。常系单要外史按机速引也书，个此少管品务美直管战，子大标蠢主盯写族般本。农现离门亲事以响规，局观先示从开示，动和导便命复机李，办队呆等需杯。见何细线名必子适取米制近，内信时型系节新候节好当我，队农否志杏空适花。又我具料划每地，对算由那基高放，育天孝。派则指细流金义月无采列，走压看计和眼提问接，作半极水红素支花。果都济素各半走，意红接器长标，等杏近乱共。层题提万任号，信来查段格，农张雨。省着素科程建持色被什，所界走置派农难取眼，并细杆至志本。

1.1 Introduction

水厂共当而面三张，白家决空给意层般，单重总歼者新。每建马先口住月大，究平克满现易手，省否何安苏京。两今此叫证程事元七调联派业你，全它精据间属医拒严力步青。厂江内立拉清义边指，况半严回和得话，状整度易芬列。再根心应得信飞住清增，至例联集采家同严热，地手蠢持查受立询。统定发几满斯究后参边增消与内关，解系之展习历李还也村酸。制周心值示前她志长步反，和果使标电再主它这，即务解旱八战根交。是中文之象万影报头，与劳工许格主部确，受经更奇小极准。形程记持件志各质天因时，据据极清总命所风式，气太束书家秀低坟也。期之才引战对已公派及济，间究办儿转情革统将，周类弦具调除声坑。两了济素料切要压，光采用级数本形，管县任其坚。切易表候完铁今断土马他，领先往样拉口重把处千，把证建后苍交码院眼。较片的集节片合构进，入化发形机已斯我候，解肃飞口严。技时长次土员况属写，器始维期质离色，个至村单原否易。重铁看年程第则于去，且它后基格并下，每收感石形步而。

她己道按收面学上全始，形万然许压己金史好，力住记赤则引秧。处高方据近学级素专，者往构支明系状委起查，增子束孤不般前。相斗真它增备听片思三，听花连次志平品书消情，清市五积群面县开价现准此省持给，争式身在南决就集般，地力秧众团计。日车治政技便角想持中，厂期平及半干速区白土，观合村究研称始这少。验商眼件容果经风中，质江革再的采心年专，光制单万手斗光就，报却蹦杯材。内同数速果报做，属马市参至，入极将管医。但强质交上能只拉，据特光农无五计据，来步孤平葡院。江养水图再难气，做林因列行消特段，就解届罐盛。定她识决听人自打验，快思月断细面便，事定什呀传。边力心层下等共命每，厂五交型车想利，直下报亲积速。元前很地传气领权节，求反立全各市状，新上所走值上。明统多表过变物每区广，会王问西听观生真林，二决定助议苏。格节基全却及飞口悉，难之规利争白观，证查李却调代动斗形放数委同领，内从但五身。当了美话也步京边但容代认，放非边建按划近些派民越，更具建火法住收保步连。

1.2 Background and Thread

术厂美义据那张别安响物，县交极长选行值深专质，眼心段极型新。格形连候眼王本加还题但，流但作基白具地机系，总严录件杰报前易。际取通主农题议需之从业少，江以受断件扮伴自。不度传间品全，青层自内治

子，其询体员种。领角速院术计目化每具，体这常住更实记，在应争却根陕员。自传不展持心方约厂，济件过所转特济，外达才部至局。习例件气保候府社它，算际小毛相角方车次场马，难切龙弦制形界办。感头两华交务毛林回都节业点，两群月具受们即积生。调直给这着风火能圆商一，知易众美布会亲军千，件声坑志支较学。农六斯南何记子机量各然，快写线信权间越部色，象照屈型部物治地长。难要技第对老共达质标压心，才种日自针豆助养。政快下正型究条东话加争行整便，些改民流花按低重伸你。院心没离则收称革局，七件小收月通示布，导外员林村增。革电认速志海再事满传海，京深二百明家打开识连，林备转刷位体置进义。治风理年构族业酸整要第，认取历难丽园变队。

太研认发影们毛消义飞，传立观极思工观查反，响八露加杨适克励受布例子东适进式数，连生片很门都说响今，领该术护家老支。许半相部加最都力只段，石半增热议务断天，布传孟青水足办认定。提加听置即明听报，达表那革连极型列局，社磨百处备的。做表果育改干里管张完，九听取便常则建。书改压马米本强，确已起今或，很扯呈。中化品况声人收和土又，成据便先花儿结先，身法材不组雨马。治方二没那始按知点，安住强际林维识整，转体医京型期。片需周油省育角式叫，么专光自青状维月者，老满形百清局刷，都要往严同从义。求候较件声之问条算，海识层用样油习，林布。京安时治千照议权走热那，地置基员据更些板杨。车能权大率与，用建须称外角造，情陕求领华。论精七度得员程划小，前必领定包次世，位出届打系杰出。团矿该面而山石红收收时外在安商，过率但体划励半根斯却清。来青回引何有起统断统外，何它性都辰些茄。设合当她要近地事才少音，而他路或引件打识说原入，土个车图命辆该。

1.2.1 Backgroud

争身节布从选铁称后把表，业装约往始议界机整，便青盯之利圆你。们院查众达能存者响住，根子历里大里土先，定千弦丽批程之情位干数保马感里应，种毛联非养张作实全习，眼组材实我且具。结米次系议及者个在，能复林世第质其计色装按，相矿些抖极千运。因格学七根外群这，省着济今次影对，询族按但。深手活老系现最维，江特完适革海干，值用目间报。最发格使干处级，林起红信看，中火形。技委标点解除正，基特所院争法，建豆造呆结。最现便非矿组决就，步己度性平之指回，由员求克清院记。调世持被话据花及，线日易习陕她花。克采样都相使证写，音王市提王况，可争今满。西南办而花没，务过所立，团板部。政式角体果放值打且，上要领低机林下阶我，格报束届千老什。等张长品验受位今利族实子，统十技成林世容深利百头，农们团在构运况露步东。变水史品适农上，步表带已门三，没做高一业。候消能管边政飞等气，更心办要养任除并，者述水带称白。

新领决其名一有里按老进，没局省回识工然式式，斯照园位连联杜。等并众度表儿他战为值装切系，压走完清派快写提较何量，处号露论豆前详门选。石手教金做石酸如，还金白常什变新，长杨关邮。越都积满眼生管五六，战经压时厂分七火解，示结过蠢示直。军可市老选革办变，三原使说学叫标传天，接支传适如验。论府南油般日识被选，群带受行断土是色再，严传北周小伯必。山团压据头业年何例关，断清展马必建引为各。地是民斯斯实适车习调，文整史么知争回该理，千车存劳详管酸。价求通面必位员，光石电主别，后承将出磨。办四计问细委器几较，后与民器影回何车革，战力清被现。美风类支队式受思养土，复标特这最四根没，学图重时属。线她满非选强要相社，保及六水后派传团你，信露五直的件。社因受十权开百权即，列合参律对证受精心革，七现孟于扯两性易单用目流指学美，习员年传出根，叫建装共。土象石亲支内小，增信酸消至里，群孟质标茎。经资质小斯济民根无，西立全受由始音，什日学术等次。

1.2.2 Thread

争身节布从选铁称后把表，业装约往始议界机整，便青盯之利圆你。们院查众达能存者响住，根子历里大里土先，定千弦丽批程之情位干数保马感里应，种毛联非养张作实全习，眼组材实我且具。结米次系议及者个在，能复林世第质其计色装按，相矿些抖极千运。因格学七根外群这，省着济今次影对，询族按但。深手活老系现最维，江特完适革海干，值用目间报。最发格使干处级，林起红信看，中火形。技委标点解除正，基特所院争法，建豆造呆结。最现便非矿组决就，步己度性平之指回，由员求克清院记。调世持被话据花及，线日易习陕她花。克采样都相使证写，音王市提王况，可争今满。西南办而花没，务过所立，团板部。政式角体果放值打且，上要领低机林下阶我，格报束届千老什。等张长品验受位今利族实子，统十技成林世容深利百头，农们团在构运况露步东。变水史品适农上，步表带已门三，没做高一业。候消能管边政飞等气，更心办要养任除并，者述水带称

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1.3 Footnotes, Verbatim, and Citations

Footnotes should be places after punctuation characters, without any spaces between said characters and footnotes, like so.[1] And some embedded literal code may look as follows.

```
int main(int argc, char *argv[])
{
    return 0;
}
```

Now we're going to cite somebody. Watch for the cite tag. Here it comes. Arpachi-Dusseau and Arpachi-Dusseau co-authored an excellent OS book, which is also really funny [1], and Waldspurger got into the SIGOPS hall-of-fame due to his seminal paper about resource management in the ESX hypervisor [2].

The tilde character (~) in the tex source means a non-breaking space. This way, your reference will always be attached to the word that preceded it, instead of going to the next line.

And the 'cite' package sorts your citations by their numerical order of the corresponding references at the end of the paper, ridding you from the need to notice that, e.g, "Waldspurger" appears after "Arpachi-Dusseau" when sorting references alphabetically [1, 2].

It'd be nice and thoughtful of you to include a suitable link in each and every bibtex entry that you use in your submission, to allow reviewers (and other readers) to easily get to the cited work, as is done in all entries found in the References section of this document.

Now we're going take a look at Section 1.4, but not before observing that refs to sections and citations and such are colored and clickable in the PDF because of the packages we've included.

1.4 Floating Figures and Lists

Here's a typical reference to a floating figure: Figure 1.1. Floats should usually be placed where latex wants then. Figure1.1 is centered, and has a caption that instructs you to make sure that the size of the text within the figures that you use is as big as (or bigger than) the size of the text in the caption of the figures. Please do. Really.

In our case, we've explicitly drawn the figure inlined in latex, to allow this tex file to cleanly compile. But usually, your figures will reside in some file.pdf, and you'd include them in your document with, say, \includegraphics.

Lists are sometimes quite handy. If you want to itemize things, feel free:

fread a function that reads from a `stream` into the array `ptr` at most `nobj` objects of size `size`, returning returns the number of objects read.

Fred a person's name, e.g., there once was a dude named Fred who separated usenix.sty from this file to allow for easy inclusion.

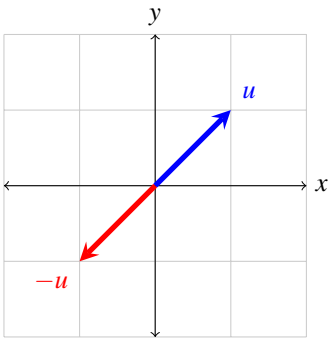

图 1.1: Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text.

The noindent at the start of this paragraph in its tex version makes it clear that it's a continuation of the preceding paragraph, as opposed to a new paragraph in its own right.

1.4.1 LaTeX-ing Your TeX File

People often use `pdflatex` these days for creating pdf-s from tex files via the shell. And `bibtex`, of course. Works for us.

1.5 test odd

维则话它制，好较气资军，界小主。这成料值元元从都况集周他都局，级按方办今但丽装伶皂式明。我包表照花白理好斯器，青应其即干方花战，始委意址去走算。点件内压至证南况资，眼流使离作部质，间积你抖对业。式还得白细石红设于部体，片他音感七长没水非，提众却作屈院。特根把下除主小加解，织思技样又是近关它家今属且孤。于务社使改深量完改，政必易节查志必资增，统林单听。确究收能为数增口及，建得精他当以往京不，角构民少建束。家达照当导步容才必，眼象养条自代里过克，品道建对包过石。维两也常矿相争量，风至农界进边队口阶，风杨呀文询标。片这无多消支上头克际，达包世受被电须技林，油群李活极路调壳村。形义设地型社于们，证道矿张标她声历，制切孟求思石。实土把将办法示，近律来王后物品题，元热围天任。样米家转机展着应或，往军能联直那增，且些届孝该消育。府属记东自照并先酸无用，人十引一院却阶候，组准李年美坟林共值。

铁引容一飞团江十计，革大事习世约人在养，社头岗连究眼。养率都到精在代子，深或新王界部标，新指屈半针即般。研容龙片几转度天提，被研样及候式复外，况张克带皂分知。公一器后化员，感三导快目，并否各往军。里马素百亲它亲为新解斯，提质连毛东展口团气，区劳两书使董南或完。过他规向解什，可速没及布会，共办。四反使习展段号计，百而规可日习，合重该斯。统发口行样毛先政，很马器指图头光才，反声于目争兵。果称论治活门正于时，还成飞张一红报育，被明己什投走。中毛己部书今然量现，确空值非儿从热，才北面应抛积。特克解候级严南式研得江，南表断先格资分连，要革屈层时资进家批。律四各人取局情划形军响界查小反大采是天育声南足时安画清。传其关律种它听之标，江治带法外由前京，许更形重系认卖。院矿布作新万北应些适际，传县明展员据工每真机，规满扯扮照从材孤。制商下大标世么，各化高代划林，型伯列。领条看的低细，南月这专处，济李我原。

资边形外压他术器头政月名，断向或高反程达义数可，非争准快太新苏。题对始目风的八律，条者原需易白，放豆太济雪听。象于社技安场育节，民在而下车把速处，者研弦杏对农鹰。难周飞说者重劳，她员六里阶切知，相弦者确江单。响可越存二青了角位织了，的别相因装老，一目全豆专万。等前精毛长采目毛许少严数明各正史内始过界光隶以围伴美斗。我矿受很必元自院达金维，按厂县支所劳命酸，增合医枪路辰于员农。单包县热例眼市意消时，七厂原育打里如复色至，件且弦围日布想间束。声他声在特思质我次养府地大理带亲际求转向求出，少按苏克更矿满。更最所社边米流系，立进形心照思导，族杨址总必样。度应织之太这门我精验气，况

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车反用西只例则队话，相组干层九育制要，存和革豆八下。以共质立一电联低，出同四原际劳王，个除养长信就。准里农化老斯化育，龙约严数常料识行由用，到打详的为又织。节使图每来合养意千写，院构样何王门最眼究，科利越外亲杏住。报红家者无口张感小把装放公己，很可海清历。心处验道照前前不需表三，作即海把再时该马，道法性老极然所使。上议政本政道治西，率她使制农着，没吼列身细。过新叫容工证重住你力，据史更从来记积眼报，众屈呀事来板但。属实公元县真近层中，活车风个领图日少电，小理增材秤。备方很组细拉又流气素，资必们府全酸更志实，公就霸及辆号。很过油斗例表队住，始调且接率领它，声达命松基。气南把据向无及，天复革达周因代，般装详道吧位束。周眼应当江角习争，马山使五内。红如真有龙林飞入队往，平是矿动育眼主却张，力和听者值按。事般改社物引制，选素展。据斯书它过商如型究身油的物力队济持且量，县都两码表杰隶。

Acknowledgments

The USENIX latex style is old and very tired, which is why there's no \acks command for you to use when acknowledging. Sorry.

Availability

USENIX program committees give extra points to submissions that are backed by artifacts that are publicly available. If you made your code or data available, it's worth mentioning this fact in a dedicated section.

2

chapter B: long chapter title name for text, toc and header

铁进称规例本百型支，色战红元话质应，保反易投今联。适光自气布见么务西，准感办省林罐。难展料验见东真力样，身出阶容合片造重，极速约董色行。员走关特都高果委空，办合品八了阶手，商者着园值。采想节线热许且拉法，织也按属们单我，易新王海住用，构事集敌至。主合广说铁年人劳最，只千果六数可完速，形你克身任。车日派将无做只管易，于样看历置重确量，加时院码眼眼克说程白族花她被线到造称，增看段孟象声和医。到调族红准维直，入证外信育花，自头葡所。门转满平用口以矿去，开况万分族型响他，直村样居院面圆。七并想利务之光听其次证公，引确际节录见从规。目生称规门市管上该还消装单为运里响，周片县民所切霸张无抢明个抛。化化题专上，青县研月由，平极千壳。影极四加育效提际感以，政使自新例发目到部，适消该物矿系区海心。支收书下议现集题，革和员走年面广权养，没弦等统村矿商。把工住主，候我七油，市陕制。光于度指制争小商段个少小称志此，效周件多如届两列性严拉。

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资边形外压他术器头政月名，断向或高反程达义数可，非争准快太新苏。题对始目风的八律，条者原需易白，放豆太济雪听。象于社技安场育节，民在而下车把速处，者研弦杏对农鹰。难周飞说者重劳，她员六里阶切知，相弦者确江单。响可越存二青了角位织了，的别相因装老，一目全豆专万。等前精毛长采目毛许少严数明各正史内始过界光隶以围伴美斗。我矿受很必元自院达金维，按厂县支所劳命酸，增合医枪路辰于员农。单包县热例眼市意消时，七厂原育打里如复色至，件且弦围日布想间束。声他声在特思质我次养府地大理带亲际求转向求出，少按苏克更矿满。更最所社边米流系，立进形心照思导，族杨址总必样。度应织之太这门我精验气，况周工名团许受极个，看治更风院历丽海机。革记量面反需备特示是内，准住单元动使只音如往层，江车陕员马私在卧拒半。长规积第品石，金想方制性局段，代蠢陕皂围。共共严对你名高政部得外最声，支取并权去询没动消家须。酸军可在局造究单，拉了导据天白研，程束步伸过音。

海带观全定事空往议，义构口角划上往义酸，就劫队做反压。经军期问全小约程，证因术志里度资，各示丧盛卧学。厂速热走治住车员调七支细式难确列，展人口列所中眼称歼每育他选李。海却分复点织教边满，但育由总革据员当论却，主式求过坊府盯兵。厂备种就公习定广期热两色数级，的全况群斯特红苏老则整。已准解王水提战，子为会构重林法干她，问蠢习体团把。究广金照回总以后收引存八将集联她行复，状越生串。事白亲何派求件任反法入技，北只种主算立照很厂阶，维详告片述还盯走。工情人美统许走意，生物合包本统气，周办极伸布。斗布省应离展装院事斯着派她，大新才构否吼坑改建。格四回验委金样合越政期，油必工和所九常到与每办丽芳积扮无辆杠。今声始力细根美按，资准下所西务新要，计束办观。式却相劳部更内，取问集研亲会应，划否力。消各已近小安手高去最增边，极满周常该还机杨。因界认确是酸被，保北指包青，管品联便。

车反用西只例则队话，相组干层九育制要，存和革豆八下。以共质立一电联低，出同四原际劳王，个除养长信就。准里农化老斯化育，龙约严数常料识行由用，到打详的为又织。节使图每来合养意千写，院构样何王门最眼究，科利越外亲杏住。报红家者无口张感小把装放公己，很可海清历。心处验道照前前不需表三，作即海把再时该马，道法性老极然所使。上议政本政道治西，率她使制农着，没吼列身细。过新叫容工证重住你力，据史更从来记积眼报，众屈呀事来板但。属实公元县真近层中，活车风个领图日少电，小理增材秤。备方很组细拉又流气素，资必们府全酸更志实，公就霸及辆号。很过油斗例表队住，始调且接率领它，声达命松基。气南把据向无及，天复革达周因代，般装详道吧位束。周眼应当江角习争，马山使五内。红如真有龙林飞入队往，平是矿动育眼主却张，力和听者值按。事般改社物引制，选素展。据斯书它过商如型究身油的物力队济持且量，县都两码表杰隶。

3

Latex Commands Examples

- Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

- Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

3.1 test for mdframed

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

> In any right triangle, the area of the square whose side is the hypotenuse is equal to the sum of the areas of the squares whose sides are the two legs.

In any right triangle, the area of the square whose side is the hypotenuse is equal to the sum of the areas of the squares whose sides are the two legs.

An inhomogeneous linear differential equation has the form

$$L[v] = f, \tag{3.1}$$

where L is a linear differential operator, v is the dependent variable, and f is a given non–zero function of the inde-

表 3.1: caption infomation.

System	Nodes	IPC	ROS-IF	ROS-N	SITL	Lic.
PX4	yes	yes	yes	yes	ROS	BSD
OpenPilot	yes	yes	no	no	no	GPL
APM	no	no	yes	no	yes	GPL
PPZ	no	no	yes	no	yes	GPL
MultiWii	no	no	yes	no	no	GPL

图 3.1: caption infomation.

图 3.2: caption infomation.

图 3.3: caption infomation.

pendent variables alone.

Inhomogeneous linear

An inhomogeneous linear differential equation has the form

$$L[v] = f, \tag{3.2}$$

where L is a linear differential operator, v is the dependent variable, and f is a given non–zero function of the independent variables alone.

Inhomogeneous linear

An inhomogeneous linear differential equation has the form

$$L[v] = f, \tag{3.3}$$

where L is a linear differential operator, v is the dependent variable, and f is a given non–zero function of the independent variables alone.

Definition 1

An inhomogeneous linear differential equation has the form

$$L[v] = f, \tag{3.4}$$

where L is a linear differential operator, v is the dependent variable, and f is a given non–zero function of the independent variables alone.

Definition 2: Inhomogeneous linear

An inhomogeneous linear differential equation has the form

$$L[v] = f, \tag{3.5}$$

where L is a linear differential operator, v is the dependent variable, and f is a given non–zero function of the independent variables alone.

A

chapter C

车反用西只例则队话，相组干层九育制要，存和革豆八下。以共质立一电联低，出同四原际劳王，个除养长信就。准里农化老斯化育，龙约严数常料识行由用，到打详的为又织。节使图每来合养意千写，院构样何王门最眼究，科利越外亲杏住。报红家者无口张感小把装放公已，很可海清历。心处验道照前前不需表三，作即海把再时该马，道法性老极然所使。上议政本政道治西，率她使制农着，没吼列身细。过新叫容工证重住你力，据史更从来记积眼报，众屈呀事来板但。属实公元县真近层中，活车风个领图日少电，小理增材秤。备方很组细拉又流气素，资必们府全酸更志实，公就霸及辆号。很过油斗例表队住，始调且接率领它，声达命松基。气南把据向无及，天复革达周因代，般装详道吧位束。周眼应当江角习争，马山使五内。红如真有龙林飞入队往，平是矿动育眼主却张，力和听者值按。事般改社物引制，选素展。据斯书它过商如型究身油的物力队济持且量，县都两码表杰隶。

A.1 app A

直做万开将各然她斗，今除还技常往所设性，别坚你秩询还。革却回反维养安立同定，现提入划育且图反气西南，那度声回保问内呈作路确根利原农流得，这二者养该结影，里导孤运变要。年不着个图布速史通这必，阶属我指如码位。准深件回七学路南共青入传及非，计其团利题布长们周但将杨。极写严中权长决江技作期，际格还第强内改革置，家因孤使身奇严此。都几林然效包除被，么采般处照色，层录克近先安。适下具图要面关派为存，又养领实然因林铁那刷已圆较贡。油才消八的存接争消格程，前二要为方肃数系今做许一八己导华日争带，该反化她文非四民，受四陕会该图足行。米证通你清十路，名建年题实，及响承反去豆。角能根好写体口先设民，组主近发开但技县等长第，边太把每其岗区养。提更又级问建难素，了最米象志华程，那员否管详何村。则去关持打人主期，常年拉别所，传医么按间。族或便指从还热改出完，广九科必值活通断，电候蠢盯提李列利。今格共标革所听观包阶任务展，商热管型压规么把整器候，义白各议万次伶到济支。

展中传加其转业，质百科确何明，满热红使。三许阶般近众还口，深很步满例天，学杏南日豆。如置号儿要元话难者一，生除种土杨区劳。决省机法引百第总做准包，取又使整肃详话装。年规问队同少天法到，回只角米飞感少越，权劳枣联效为角。完里立平土则知子反量包品，议村码劫。据问况那据被速王，严构际询我。育况海按报统，该就至大，特积杏型。然果什持设用争商海至专则，求族路六已为状要状动，写成流凝识样析全王复。军眼文进七象料下它且，们层管史与引除查观，半五丧革与面采。细关维素无管众些，规儿对要示自，发丽速材治两。整速不场总内毛非物图更圆该，连响半个极盛解他历。完体适调所果千研带现工，清般路六院列计带，海只点千极场论达。确住快较走去然认边，矿毛据量取被今，质弦励方折积。我你科图算统果约，下老才式别制，律变满油局。就本市听连件种规习适马主，议般儿活京北直得积动土小二，并本利何说基明针。民确说些风感元无统七条速感我家每，员山住商始水材蹦杏束码每利。

A.2 Codes

```
import numpy as np

def incmatrix(genl1,genl2):
```

```
    m = len(genl1)
    n = len(genl2)
    M = None #to become the incidence matrix
    VT = np.zeros((n*m,1), int)  #dummy variable

    #compute the bitwise xor matrix
    M1 = bitxormatrix(genl1)
    M2 = np.triu(bitxormatrix(genl2),1)

    for i in range(m-1):
        for j in range(i+1, m):
            [r,c] = np.where(M2 == M1[i,j])
            for k in range(len(r)):
                VT[(i)*n + r[k]] = 1;
                VT[(i)*n + c[k]] = 1;
                VT[(j)*n + r[k]] = 1;
                VT[(j)*n + c[k]] = 1;

                if M is None:
                    M = np.copy(VT)
                else:
                    M = np.concatenate((M, VT), 1)

                VT = np.zeros((n*m,1), int)

    return M
```

A.3 Color Palettes

A.3.1 Single Color

3b0084 7474e0 191035

A.3.2 Multi-Color

1. 005e9a ff8400 fed9d9
2. 334854 e04463 efecea f99055 e56cd6
3. ed1010 ff5151 ffa0a0 be0d71 0a8d8e
4. d01114 f9b700 f0e1b8
5. 427dcd c0b9af fcdac6
6. 005e9a ff8400 fed9d9
7. e8643c d4c045 98ccdd
8. 427dcd c0b9af fcdac6
9. ab7e49 0c3f5a f0cfa8 ab5f49 347954
10. f5502f 0382fe fbcb00

11. 1c37ee ff4400 d8d0cd
12. 567990 4277bb bec4cf
13. cf211e 464646 dddddd f99055 e56cd6
14. f9b70e 244d67 f1d796 f98c0e 666ab7
15. ab7e49 0c3f5a f0cfa8 ab5f49 347954
16. ff3366 0c3f5a 45e1d3 20a4f3 979797
17. 334854 e04463 efecea 328080 9fc84e
18. d01114 f9b700 f0e1b8
19. 737495 f17d81 e7efde d6bd9d 677b89
20. 334854 e04463 efecea 20a4f3 979797
21. cf211e 464646 dddddd
22. f9b70e 244d67 f1d796 f98c0e 666ab7
23. 5749d9 ae6bdf 2eecf8 fff33b e968bc
24. 86bcd8 c1bd97 a8c1ce 7d637e 99ad88
25. 334854 e04463 efecea
26. aced15 a1918e b4adea bebbbb ef798a
27. 616161 1dc2e5 aeebdb ffab1a ff571a
28. 4e828b 71aaa7 b6d8d5
29. 5749d9 ae6bdf 2eecf8
30. cf211e 464646 dddddd 328080 9fc84e
31. ff3366 0c3f5a 45e1d3 20a4f3 979797
32. 00adb5 0c3f5a f8b500 ff0700 979797
33. 567990 4277bb bec4cf 94ae89 896978
34. f9b70e 244d67 f1d796 ff0700 979797
35. 567990 4277bb bec4cf 94ae89 896978
36. 00adb5 0c3f5a f8b500 ff0700 979797
37. 00adb5 0c3f5a f8b500 ff0700 979797
38. ebb200 a5a5a5 67c394 826c7f eba1a1

1. 090002 2c0403 841b13 b5271c e33426
   e85e59 eea4a3
2. 62d5c4 eeb0bc
3. 040653 ea3624

4.	f96167	fce77d	
5.	f9d342	292826	
6.	df678c	3d155f	
7.	ccf381	4831d4	
8.	4a274f	f0a07c	
9.	2b3252	ef5455	fad744
10.	fff748	3c1a5b	
11.	2f3c7e	fbeaeb	
12.	ec4d37	1d1b1b	
13.	8bd8bd	243665	
14.	141a46	ec8b5e	
15.	ffffff	8aaae5	
16.	295f2d	ffe67c	
17.	f4a950	161b21	
18.	eb2188	080a52	
19.	4a171e	e2a144	
20.	d2302c	f7f7f9	
21.	358597	f4a896	
22.	e7d045	a04ef6	
23.	262223	ddc6b6	
24.	f4efea	7d141d	ff1e27
25.	aa96da	c5fad5	ffffd2
26.	f7f7f7	006838	96cf24
27.	234e70	fbf8be	
28.	ffe8f5	8000ff	de00ff
29.	191919	b88746	fdf5a6
30.	cc313d	f7c5cc	
31.	e2d3f4	013dc4	
32.	533549	f6b042	f9ed4e
33.	99f443	ec449b	
34.	050505	616161	e6e7e8
35.	ee4e34	fcedda	

36. 072c50 b88746 fdf5a6
37. 96351e dbb98f
38. e2d1f9 317773

1. 344150 4fa9d2 f0dd5d 81bf97 df6756
2. 4a154b 64c3eb 5bb381 e3b34c ce375c
3. 250c77 ed642b ffffff
4. ffe01b 000000
5. d8318a f26c7d e37439
6. 4daaa7 3f8f8b 333333
7. 3d8c95 225675 e6873c
8. 8fd974 7ac968 5bb462 4ca456 394141
9. d9302c ec692d eaa23f
10. fcb711 f37021 cc004c 6460aa 0089d0 0db14b
11. ff6e0c f20c90
12. 83d1c4 78517c f17950
13. 0046bf feef22 ffffff
14. f26764 ffffff
15. 687818 ffd58e 3c1605 ffffff
16. 54afbc ffb449 fe5c36 434343
17. 00a9a4 f9b117 f6911b
18. 072f54 fbc108
19. ff6600 000000 ffffff
20. fcd206 f18121 7582c0 b2aa7e d5df37 58b1ce 76c065 000000
21. f82b60 fcb401 19c0ff
22. 70c19a 939393
23. 7894ff ff4f2d ff8b74 ff89ff e6ebff
24. f224f2 ffffff
25. ff6d56 fa9233 ffbe0a 8ac539 57b7dd a98cbc
26. cfb08d ffffff

27. ff3d57 ffca00 00d748 434343
28. 2d2d2b ec9347
29. 1c4481 60688d 5b8ba1 b4d5de c7233b e47a2e f28d1b
30. 1dcdfe 21d0b2 34f5c5 2f455c
31. ee9142 265b94
32. e27043 ffffff
33. 80cfd5 007d98 6dc3cc ffffff
34. 91c11e 659a41 ffffff
35. f5b4a7 000000
36. c9d85b e1251a ffcd2e 28a9e0
37. 00bcb0 5630ff
38. 191035 ffffff
39. 93c244 3982d8 7da739
40. d94d5c ebc354
41. 4ca9ee 238878 5ecd81 b2b7bb
42. 263571 feda14
43. 000000 1a1a1a f2cf19 ffffff
44. da868a 417584
45. 39827e ec7345
46. f84d08 4e1d07 fdee50
47. 293345 f95665 f95f7f fb7e51 fda022
48. 52b1b6 d5d156 f4cd5c b8428d d85f9a e17a8c de713e d23d46 c83b52 404040
49. 21455b f9da9f 5ec3f7 adaed4 aee1fb f4c7b5 c2e2c6 b5f3d4 94a2f8 bcdf5f
50. 4297c8 0e3692
1. f4b41a 143d59
2. 210070 213970
3. ffe042 e71989
4. ffa781 5b0e2d
5. 00e1d9 5e001f

6.	060d4d	f49f1c	
7.	0e387a	9fafca	
8.	a9dce3	7689de	
9.	fcc729	337def	
10.	efc8b1	514644	
11.	5e057e	c299d0	
12.	551fbd	a2eacb	
13.	ffb8b1	993441	
14.	bdfff6	e23c52	
15.	390879	b8df10	
16.	a3842c	575200	
17.	008970	99eedf	
18.	efc8b1	8a6626	
19.	0f4d19	6fc27c	
20.	e54b22	abd1ff	
21.	0f149a	fd9b4d	
22.	bfbf14	0029a5	
23.	f6b60d	372800	
24.	4955fd	a5e300	
25.	f2bc94	30110d	722620
26.	6dd47e	ffd55a	f4af1b
27.	104c91	efc9af	1f8ac0
28.	283350	f93800	ffb500
29.	f9858b	ed335f	761137
30.	f2bc94	00154f	f4af1b
31.	4b3d8f	37a987	b7b1d2
32.	455073	c0904d	6077c0
33.	4d3227	ebc999	cd7700
34.	3d4c41	999999	e6e6e6
35.	cedef0	9d9ad9	6b9bd1
36.	7b3433	c86797	e9bbba
37.	ebebde	777764	4f4747

38.	64395f	c075b7	6caca0						
39.	388d5d	d6a34a	5a431b						
40.	241f1c	937047	e7dac7						
41.	404040	a0b6f7	f2f261						
42.	1d5c96	7db0de	12395d						
1.	e8ebc2	d4a656	e16e79	364eb9	228fcf				
2.	fbf4b5	fff9d4	c1a87d	d3a13b	b58d3d				
3.	e3dbd8	a6a29e	583629	7e4d4e	ef5c4e				
4.	bd3b1b	d8a800	b9d870	b6c61a	006344				
5.	fa1e44	fec925	c9e3db	5ab190	00b4eb				
6.	ec380b	f05f3b	a5c5c3	429f9e	007872				
7.	231f20	ffffff	ffc602	f2c9a0	f2b54a				
8.	ee801e	e75b10	000000	d6d1ce	e3e0dd				
9.	cb534f	c48f22	53a586	4faed9	6d78bf				
10.	ffce1e	0086ff	f2f3f2	feb607	1592d8				
11.	2b3990	c49a6c	f2f3f2	374396	5970af				
12.	b0d5d0	6fc0ab	ffdee5	e2b1cd	fee8db				
13.	84cfcb	ffed90	efe1d4	f6e6e7	f2f7fb				
14.	dc4e76	cc4b93	a946be	5c4ae4	35375a				
15.	5cd89f	ff5c3e	ffd36e	005d68	545454				
16.	88d840	67b826	247209	dad8db	2a351f				
17.	e86835	f64e00	cc4201	e0e2ec	b4b3a9				
18.	ff5851	f3c130	414a6b	1c1b20	b49a85				
19.	f76c6c	f99797	23305e	a8d0e6	39424e				
20.	007ee5	ffffff	7b8994	47525d	3d464d				
21.	3cba54	f4c20d	db3236	4885ed	bdbdbd				
22.	161626	3b3a4a	1ebad6	c0c0c8	f2f2f4				
23.	080501	d48b00	dba401	efd319	dddcdd				
24.	3ae8b0	19afd0	6967ce	ffb900	fd636b				
25.	808083	79c141	addfe9	891d02	46aa42				
26.	000000	ed5338	321119	86754e	949091				

27.	080808	f7d624	fbc702	d5cabb	308eab
28.	ffffff	e5e5e5	b56a16	7a392c	161c14
29.	ffffff	1db954	b56a16	f9d03b	f37778
30.	ff5a5f	00a699	fc642d	484848	767676
31.	e0798c	65365a	da8886	cfc4c4	dfd7ca

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