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These platforms.[21] A patch was released in January 2016, fixing bugs and altering the appearance of blue-colored players see them better.[53] Sony Interactive Entertainment announced during E3 2017 that Undertale would get a release for the PlayStation 4 and PlayStation Vita, and a retail version published by Fangamer. These versions were released on August 15, 2017.[54][55][56]A number of fans have expressed concern about the quality of the Nintendo Switch version, as it was revealed during the March 2018 Nintendo Direct, although no release date was given at the time.[57][58] Undertale related to the Switch has a deal between Nintendo and Fox to allow users of GameMaker Studio 2 to directly export their games to the Switch.[59] The Switch version was released on September 15, 2018, in Japan.[60] and on September 18, 2018, worldwide.[61] The Xbox One version was released on March 16, 2021. As with the PlayStation 4 and Switch versions, the Xbox One version features unique content specific to that platform.[62] All the console ports were developed and published by Japanese localizer 8-4 in all regions.[112]Other Undertale media and merchandise have been released, including toy figurines and plush toys based on characters from the game.[63] The game's official soundtrack, Undertale Soundtrack, was released by video game music label Materia Collective in 2015, simultaneously with the game's release.[64] Additionally, two official Undertale cover albums have been released: the 2015 metal/electronic album Determination by RichaadeB and Amie Waters,[65][66] and the 2016 jazz album Live at Grillby's by Carlos Eiene, better known as insaneintherainmusic.[67] Another album of jazz duets based on Undertale's songs, Prescription for Sleep, was performed and released in 2016 by saxophonist Norihiro Hibino and pianist Ayaki Sato.[68]A 2xLP vinyl edition of the Undertale soundtrack, produced by iam8bit, was also released in the same year.[69] Two official UNDERTALE Piano Collections sheet music books and digital albums, arranged by David Peacock and performed by Augustine Mayuga Gonzales, were released in 2017 and 2018 by Materia Collective.[70][71] A Mil Fighter costume based on Sans was made available for download in the crossover title Super Smash Bros. Ultimate in September 2019, marking the character's official debut as a 3D model. This costume also adds a new arrangement of "Megalovania" by Fox as a music track.[72] Super Smash Bros. director Masahiro Sakurai noted that Sans was a popular request to appear in the game.[73] Music from Undertale was also added to Taiko no Tatsujin: Drum 'n' Fun! as downloadable content.[74]After Undertale's release, a small Japanese fan community slowly emerged, leading to an unofficial fan localization edition being released in early 2016. Since Fox had envisioned a Japanese translation as an eventual goal while working on the game, he consulted a number of different companies, eventually choosing 8-4, which fan previously translated Aquaria and Shovel Knight.[75][76]To ensure a consistent voice for the game, 8-4 chose to employ only one primary translator, Keiko Fuchicho, even though it would lead to the Japanese version taking longer to release. She was supported by a small team of editors and proofreaders, and a programmer which modified the game to work with Japanese writing systems, and the translation began in early 2016. Fox provided development notes and annotated dialogue to the team, and he continued to support and advise them throughout its creation.[76]As PC gaming is less prominent in Japan, they concurrently made the decision to release Undertale for consoles, with the porting also being handled by 8-4.[75][77]After the localization's announcement, many fans were surprised by the decision to use the Japanese pronoun oira (fo) for Sans due to its connotation with rural life, leading to the term oira shock.[76][78]The localization was released for PS4 and Vita on August 16, 2017, and for PC on August 22.[79][80]ReceptionAggregate scoreAggregateScoreMetacritic(PC) 92/100[81](PS4) 92/100[82](NS) 93/100[83]Review scoresPublicationScoreDestructoid10/10[3][84]Game Informer9.5/10[86]GamesPot9/10[47]Giant Bomb5/5[85]IGN10/10[1]7PC Gamer (US)91/100[87]USgamers/5[88]Undertale received "universal acclaim" from critics, according to review aggregator website Metacritic.[81][82][83] There, it is the third-highest rated Windows game released in 2015.[81] and among the top 50 of all time.[89] It was temporarily the highest-rated PC game of all time on Metacritic after release.[90] Praise was particularly directed at the game's writing, unique characters, and combat system. GameSpot's Tyler Hicks declared it "one of the most progressive and innovative RPGs to come in a long time".[47] and IGN's Kallie Plagge called it "a masterfully crafted experience".[17]Daniel Tack of Game Informer called the game's combat system "incredibly nuanced", commenting on the uniqueness of each enemy encounter.[86] Giant Bomb's Austin Walker praised the complexity of the combat, commenting that it is "unconventional, clever, and occasionally really difficult".[65] Ben "Yahtzee" Croshaw of The Escapist commended the game's ability to blend turn-based and live combat elements.[91]IGN's Plagge praised the ability to avoid combat, opting for friendly conversations instead.[17] Jesse Singh of The Boston Globe found the game's ability to make the player empathize with the monsters during combat if they opted for non-violent actions was "indicative of the broader, fundamental sweetness at the core" of Undertale.[92] Games and Culture's Gabriel Elvry believed the general appeal of Undertale's pacifist route was the facilitation of parasocial interactions with its monsters, which was attributed to their simplicity and representation of daily human life, contrasted to the genocide route, where such interactions cannot happen, as the monsters have either fled or were killed by the player.[93]Essayist Sean Travers in the Journal of Popular Culture described Undertale as a critique of the violent nature of mainstream role-playing video games, where players kill enemies in exchange for experience points. She noted the game's rather punitive nature towards those who choose to play through the Genocide route and ignore warnings, citing its progressive change in tone and disturbing imagery. Travers interprets this as the player becoming the antagonist or a "postmodern psychopath", which is described as a character who commits immoral actions for the sole reason being their consequences. She believed that Undertale is innovative in such games, due to the player's "degree of choice".[94] Kevin Vale of Convergence compared Undertale's management of accountability to that of Night in the Woods, citing the central role the player has in them, while contrasting their use of gameplay elements.[95]Reviews praised the game's writing and narrative, which IGN's Plagge labeled it as "strong" and "consistently funny" and noted how it "built[on] on Undertale's themes of humanity and morality".[17] The Escapist's Crowshaw considered Undertale the best-written game of 2015, writing that it "is on the one hand hilarious... and is also, by the end, rather heartfelt".[91] Destructoid's Ben Davis praised the game's characters and use of comedy, and compared its tone, characters, and storytelling to Cave Story (2004).[3] PC Gamer's Richard Cobbett provided similar comments, writing that "even its weaker moments... just about work".[87] Undertale's absurd humor attracted praise. Kill Screen considered absurdity a signature quality of Fox's humor.[29]The game's visuals received mixed reaction. Giant Bomb's Walker called it "simple, but communicative".[85]IGN's Plagge wrote that the game "uses graphics pretty" and "often ugly", but felt that the music and animations compensate.[17]The Escapist's Crowshaw remarked that "it wobbles between basic and functional to just plain bad".[91]Other reviewers liked the graphics: Daniel Tack of Game Informer felt that the visuals appropriately match the characters and settings.[86] while Richard Cobbett of PC Gamer commended the ability of the visuals to convey emotion.[87]By the end of 2015, according to a preliminary report by Steam Spy, Undertale was one of the best-selling games on Steam, with 530,343 copies sold.[96] By early February 2016, the game surpassed one million sales,[97] and by July 2018, the game had an estimated total of three and a half million players on Steam.[98] Japanese digital PlayStation 4 and PlayStation Vita sales surpassed 100,000 copies sold by February 2018.[99] By March 2019, Undertale was one of the ten best-selling indie games on the Switch.[100] As of August 29, 2024, Steam Spy estimates that Undertale has sold between 5 and 10 million copies on Steam.[101][102]GCoSplayers portraying (from left to right) Sans, Undyne, Papyrus, Toriel, Grillby, and Napstablook at Tsunakon in RotterdamUndertale quickly developed a cult following.[102][103] About a year after release, Fox commented that he was surprised by how popular the game had become and though appreciative of the attention, he found it stressful.Fox said: "It wouldn't surprise me if I never made a game as successful again. That's fine with me though".[104]A Diaz of NPR stated that Undertale "shaped the entertainment tastes of an entire generation", and that it "took on a new life through memes".[125] Reid Young, CEO of Fangamer, said that the game became "an absolutely dominating force".[125] The character Sans has been well received by players, being the subject of many fan works.[105][106][107] Professional wrestler Kenny Omega has expressed his love of Undertale, dressing as Sans for the October 30, 2019, episode of All Elite Wrestling: Dynamite.[108] Sans's addition as a Mil fighter costume in Super Smash Bros. Ultimate garnered positive feedback from fans, although The Commonwealth Times considered his addition to be a "potential problem" due to the depressing nostalgia factor for each new character and ever-increasing size of the roster.[109]The Undertale fandom has also been noted for the creations of various fan games that offer unique stories and gameplay mechanics based on the Undertale world.[110] Among the most anticipated fangames was the spinoff Undertale Yellow, which after seven years of development was released in 2023 and met with immense popularity by fans on multiple social media networks.[111]Undertale's fanbase has also been subject to controversy, leading to it gaining a negative reputation. Part of it was due to the disagreement between fans over the correct way to play the game.[125][112]After the game's release, some live streamers were harassed by fans of the game for killing in-game enemies and attempting the "genocide" route. YouTube Markplier refused to complete his initial play-through of the game, stating that he was "not having fun" due to fan demands.[112]In July 2016, during a summit about the Internet held at the Vatican, YouTube personality MatPat gifted a copy of Undertale to Pope Francis. MatPat explained his choice of gift by referencing the game's 2016's status as the Extraordinary Jubilee of Mercy, and connecting this to Undertale's overarching theme of mercy.[113] Later, in January 2022, a circus troupe performed in front of the Pope during his weekly audience at the Vatican to the tune of "Megalovania", drawing parallels with MatPat's symbolic gift of the game to Pope Francis.[114][115] Christopher Cayari of the International Journal of Education & the Arts described Undertale's popularity as an example of video game music serving as a medium that could serve a great utility to music educators, citing the fandom's participatory culture.[116] Undertale's fandom has been among the most prone to fan theories due to the mysterious nature of many plot elements. A commonly proposed theory by the fandom is that Chara, the first human who fell into the underground and is credited to causing the destruction inflicted in the Genocide route, is the narrator of the game. Among all theories proposed by the fandom though, the story regarding the former royal scientist W. D. Gaster is often cited as the deepest rabbit hole in the story of the game. The Gaster story has very few pieces of evidence confirmed to have been known by the community outside of his association with the font Windings, his role as the royal scientist, and creating the CORE (a magical and technological power source for the Underground's monsters who live in the most populated areas) within Undertale only to "fall into his creation" and have his body shattered across time and space. Upon the release of Deltarune, players en masse speculated that Gaster played some role in the plot of the game and was an attempt to link both Undertale and Deltarune together aside from sharing the same characters.[117][118][119][120][121]The game appeared on several year-end lists of the best games of 2015, receiving Game of the Month and Funniest Game on PC from Rock Paper Shotgun,[122][14] Best Game Ever from GameFAQs,[123] and Game of the Year for PC from Zero Punctuation.[124] and IGN.[125] It also received Best PC Game from Destructoid,[126]Undertale garnered awards and nominations in a variety of categories with praise for its story, narrative and for its role-playing. At IGN's Best of 2015, the game received Best Story.[127] The Academy of Interactive Arts & Sciences nominated Undertale for Role-Playing/Massive Multiplayer Game of the Year, Outstanding Achievement in Game Direction, and the D.I.C.E. Sprite Award.[128] Undertale was nominated for the Innovation Award, Best Debut, and Best Narrative at the Game Developers Choice Awards.[129] In 2016, at the Independent Games Festival the game won the Audience Award, and garnered three nominations for Excellence in Audio, Excellence in Narrative, and the Seumas McNally Grand Prize.[130][131] The SXSW Gaming Awards named it the Most Fulfilling Crowdfunded Game, and awarded it the Matthew Crump Cultural Innovation Award.[132] The same year at the Steam Awards the game received a nomination for the "I'm not crying, there's just something in my eye" award.[133] In 2019, Polygon named the game among the decade's best.[134] In 2021, IGN listed Undertale as the 20th greatest game of all time, while in Japan, a nationwide TV Asahi poll of over 50,000 players listed Undertale as the 13th greatest game of all time.[135][136]Award date of ceremonyCategoryResultRef(s)British Academy Games AwardsApril 7, 20165StoryNominated[137][138]The Game AwardsFebruary 18, 2016Role-Playing/Massively Multiplayer Game of the YearNominated[128]I.C.E. Sprite AwardNominatedOutstanding Achievement in Game DirectionNominatedDragon AwardsAugust 11, 2016Best Science Fiction or Fantasy PC/Console GameNominated[139]Global Game AwardsNovember 27, 2015Best Indie Runner-up[140]The Game AwardsDecember 3, 2015Best Independent GameNominated[141]Games for ChangeNominatedBest Role-Playing GameNominatedGame Developers Choice AwardsMarch 16, 2016Innovation AwardNominated[129]Best DebutNominatedBest NarrativeNominatedIndependent Games Festival AwardsSeumas McNally Grand PrizeNominated[142]Excellence in AudioNominatedExcellence in NarrativeNominatedAudience AwardWon[130]Japan Game AwardsSeptember 23, 2018Award for ExcellenceWon[143]SXSW Gaming AwardsMarch 19, 2016Game of the YearNominated[144]Excellence in GameplayNominatedMost Promising New Intellectual PropertyNominatedMost Fulfilling Crowdfunded GameWon[132]Matthew Crump Cultural Innovation AwardWonMain article: DeltaruneAfter previously teasing something Undertale-related a year earlier, Fox released the first chapter of Deltarune on October 31, 2018, for macOS and Windows for free.[145] Deltarune is "not the world of Undertale", according to Fox, though characters and settings may bring some of Undertale's world to mind.[146] and is "intended for people who have completed Undertale".[147] The name Deltarune is an anagram of Undertale.[148] Fox stated that this release is the first part of a new project, considering it a "survey program" to determine the project's future direction.[148] Fox clarified that Deltarune will be a larger project than Undertale, stating it took him a few years to create the game's first chapter, much longer than it took him to complete the Undertale demo.[146] Chapter 2 of Deltarune was released on September 17, 2021, after Fox acquired a team to help him with further development.[149][150] Once all chapters are complete, the game will be released as a complete whole; Fox stated that he does not have an anticipated timetable for completion.[148][146] Deltarune is planned to have only one ending, regardless of what choices the player makes in the game.[146] Although the first two chapters were released at no cost, Fox plans to charge players for the finished release.[151][152] 8-4 developed the console versions.[112] Self-published on PC version 8-4 published the console versions. ^ Fangamer published the physical versions of the Windows and Console ports. ^ The three endings are referred to as, respectively, the "neutral run", the "pacifist run", and the "genocide run" (less commonly known as the "no mercy run").[141][17][18] ^ In role-playing games, "LV" and "EXP" are abbreviations for "level" [experience] level" and "experience points", respectively, and are desirable to increase.[19] ^ This figure only includes sales on Steam. ^ a b Fox, Toby (June 13, 2017). 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xx xy xz ya yb yc yd ye yf yg yh yi yj yk yl ym yn yo yp yq yr ys yt yu yv yw yx yy yz za zb zc zd ze zf zg zh zi zj zk zl zm zn zo zp zq zr zs zt zu zv zw zx zy zz ^ a b c d e f g h i j k l m n o p q r s t u v w x y z aa ab ac ad ae af ag ah ai aj ak al am an ao ap aq ar as at au av aw ax ay az ba bb bc bd be bf bg bh bi bj bk bl bm bn bo bp bq br bs bt bu bv bw bx by bz ca cb cc cd ce cf cg ch ci cj ck cl cm cn co cp cq cr cs ct cu cv cw cx cy cz da db dc dd de df dg dh di dj dk dl dm dn do dp dq dr ds dt du dv dw dx dy dz ea eb ec ed ee ef eg eh ei ej ek el em en eo ep eq er es et eu ev ew ex ey ez fa fb fc fd fe ff fg fh fi fj fk fl fm fn fo fp fq fr fs ft fu fv fw fx fy fz ga gb gc gd ge gf gg gh gi gj gk gl gm gn go gp gq gr gs gt gu gv gw gx gy gz ha hb hc hd he hf hg hh hi hj hk hl hm hn ho hp hq hr hs ht hu hv hw hx hy hz ia ib ic id ie if ig ih ii ij ik il im in io ip iq ir is it iu iv iw ix iy iz ja jb jc jd je jf jg jh ji jj jk jl jm jn jo jp jq jr js jt ju jv jw jx jy jz ka kb kc kd ke kf kg kh ki kj kl km kn ko kp kq kr ks kt ku kv kw kx ky kz la lb lc ld le lf lg lh li lj lk ll lm ln lo lp lq lr ls lt lu lv lw lx ly lz ma mb mc md me mf mg mh mi mj mk ml mn mo mp mq mr ms mt mu mv mw mx my mz na nb nc nd ne nf ng nh ni nj nk nl nm no np nq nr ns nt nu nv nw nx ny nz oa ob oc od oe of og oh oi oj ok ol om on oo op oq or os ot ou ov ow ox oy oz pa pb pc pd pe pf pg ph pi pj pk pl pm pn po pp pq pr ps pt pu pv pw px py pz qa qb qc qd qe qf qg qh qi qj qk ql qm qn qo qp qq qr qs qt qu qv qw qx qy qz ra rb rc rd re rf rg rh ri rj rk rl rm rn ro rp rq rr rs rt ru rv rw rx ry rz sa sb sc sd se sf sg sh si sj sk sl sm sn so sp sq sr ss st su sv sw sx sy sz ta tb tc td te tf tg th ti tj tk tl tm tn to tp tq tr ts tt tu tv tw tx ty tz ua ub uc ud ue uf ug uh ui uj uk ul um un oo up uq ur us ut uu uv uw ux uy uz va vb vc vd ve vf vg vh vi vj vk vl vm vn vo vp vq vr vs vt vu vw vx vy vz wa wb wc wd we wf wg wh wi wj wk wl wm wn wo wp wq wr ws wt wu ww wx wy wz xa xb xc xd xe xf xg xh xi xj xk xl xm xn xo xp xq xr xs xt xu xv xw xx xy xz ya yb yc yd ye yf yg yh yi yj yk yl ym yn yo yp yq yr ys yt yu yv yw yx yy yz za zb zc zd ze zf zg zh zi zj zk zl zm zn zo zp zq zr zs zt zu zv zw zx zy zz ^ a b c d e f g h i j k l m n o p q r s t u v w x y z aa ab ac ad ae af ag ah ai aj ak al am an ao ap aq ar as at au av aw ax ay az ba bb bc bd be bf bg bh bi bj bk bl bm bn bo bp bq br bs bt bu bv bw bx by bz ca cb cc cd ce cf cg ch ci cj ck cl cm cn co cp cq cr cs ct cu cv cw cx cy cz da db dc dd de df dg dh di dj dk dl dm dn do dp dq dr ds dt du dv dw dx dy dz ea eb ec ed ee ef eg eh ei ej ek el em en eo ep eq er es et eu ev ew ex ey ez fa fb fc fd fe ff fg fh fi fj fk fl fm fn fo fp fq fr fs ft fu fv fw fx fy fz ga gb gc gd ge gf gg gh gi gj gk gl gm gn go gp gq gr gs gt gu gv gw gx gy gz ha hb hc hd he hf hg hh hi hj hk hl hm hn ho hp hq hr hs ht hu hv hw hx hy hz ia ib ic id ie if ig ih ii ij ik il im in io ip iq ir is it iu iv iw ix iy iz ja jb jc jd je jf jg jh ji jj jk jl jm jn jo jp jq jr js jt ju jv jw jx jy jz ka kb kc kd ke kf kg kh ki kj kl km kn ko kp kq kr ks kt ku kv kw kx ky kz la lb lc ld le lf lg lh li lj lk ll lm ln lo lp lq lr ls lt lu lv lw lx ly lz ma mb mc md me mf mg mh mi mj mk ml mn mo mp mq mr ms mt mu mv mw mx my mz na nb nc nd ne nf ng nh ni nj nk nl nm no np nq nr ns nt nu nv nw nx ny nz oa ob oc od oe of og oh oi oj ok ol om on oo op oq or os ot ou ov ow ox oy oz pa pb pc pd pe pf pg ph pi pj pk pl pm pn po pp pq pr ps pt pu pv pw px py pz qa qb qc qd qe qf qg qh qi qj qk ql qm qn qo qp qq qr qs qt qu qv qw qx qy qz ra rb rc rd re rf rg rh ri rj rk rl rm rn ro rp rq rr rs rt ru rv rw rx ry rz sa sb sc sd se sf sg sh si sj sk sl sm sn so sp sq sr ss st su sv sw sx sy sz ta tb tc td te tf tg th ti tj tk tl tm tn to tp tq tr ts tt tu tv tw tx ty tz ua ub uc ud ue uf ug uh ui uj uk ul um un oo up uq ur us ut uu uv uw ux uy uz va vb vc vd ve vf vg vh vi vj vk vl vm vn vo vp vq vr vs vt vu vw vx vy vz wa wb wc wd we wf wg wh wi wj wk wl wm wn wo wp wq wr ws wt wu ww wx wy wz xa xb xc xd xe xf xg xh xi xj xk xl xm xn xo xp xq xr xs xt xu xv xw xx xy xz ya yb yc yd ye yf yg yh yi yj yk yl ym yn yo yp yq yr ys yt yu yv yw yx yy yz za zb zc zd ze zf zg zh zi zj zk zl zm zn zo zp zq zr zs zt zu zv zw zx zy zz ^ a b c d e f g h i j k l m n o p q r s t u v w x y z aa ab ac ad ae af ag ah ai aj ak al am an ao ap aq ar as at au av aw ax ay az ba bb bc bd be bf bg bh bi bj bk bl bm bn bo bp bq br bs bt bu bv bw bx by bz ca cb cc cd ce cf cg ch ci cj ck cl cm cn co cp cq cr cs ct cu cv cw cx cy cz da db dc dd de df dg dh di dj dk dl dm dn do dp dq dr ds dt du dv dw dx dy dz ea eb ec ed ee ef eg eh ei ej ek el em en eo ep eq er es et eu ev ew ex ey ez fa fb fc fd fe ff fg fh fi fj fk fl fm fn fo fp fq fr fs ft fu fv fw fx fy fz ga gb gc gd ge gf gg gh gi gj gk gl gm gn go gp gq gr gs gt gu gv gw gx gy gz ha hb hc hd he hf hg hh hi hj hk hl hm hn ho hp hq hr hs ht hu hv hw hx hy hz ia ib ic id ie if ig ih ii ij ik il im in io ip iq ir is it iu iv iw ix iy iz ja jb jc jd je jf jg jh ji jj jk jl jm jn jo jp jq jr js jt ju jv jw jx jy jz ka kb kc kd ke kf kg kh ki kj kl km kn ko kp kq kr ks kt ku kv kw kx ky kz la lb lc ld le lf lg lh li lj lk ll lm ln lo lp lq lr ls lt lu lv lw lx ly lz ma mb mc md me mf mg mh mi mj mk ml mn mo mp mq mr ms mt mu mv mw mx my mz na nb nc nd ne nf ng nh ni nj nk nl nm no np nq nr ns nt nu nv nw nx ny nz oa ob oc od oe of og oh oi oj ok ol om on oo op oq or os ot ou ov ow ox oy oz pa pb pc pd pe pf pg ph pi pj pk pl pm pn po pp pq pr ps pt pu pv pw px py pz qa qb qc qd qe qf qg qh qi qj qk ql qm qn qo qp qq qr qs qt qu qv qw qx qy qz ra rb rc rd re rf rg rh ri rj rk rl rm rn ro rp rq rr rs rt ru rv rw rx ry rz sa sb sc sd se sf sg sh si sj sk sl sm sn so sp sq sr ss st su sv sw sx sy sz ta tb tc td te tf tg th ti tj tk tl tm tn to tp tq tr ts tt tu tv tw tx ty tz ua ub uc ud ue uf ug uh ui uj uk ul um un oo up uq ur us ut uu uv uw ux uy uz va vb vc vd ve vf vg vh vi vj vk vl vm vn vo vp vq vr vs vt vu vw vx vy vz wa wb wc wd we wf wg wh wi wj wk wl wm wn wo wp wq wr ws wt wu ww wx wy wz xa xb xc xd xe xf xg xh xi xj xk xl xm xn xo xp xq xr xs xt xu xv xw xx xy xz ya yb yc yd ye yf yg yh yi yj yk yl ym yn yo yp yq yr ys yt yu yv yw yx yy yz za zb zc zd ze zf zg zh zi zj zk zl zm zn zo zp zq zr zs zt zu zv zw zx zy zz ^ a b c d e f g h i j k l m n o p q r s t u v w x y z aa ab ac ad ae af ag ah ai aj ak al am an ao ap aq ar as at au av aw ax ay az ba bb bc bd be bf bg bh bi bj bk bl bm bn bo bp bq br bs bt bu bv bw bx by bz ca cb cc cd ce cf cg ch ci cj ck cl cm cn co cp cq cr cs ct cu cv cw cx cy cz da db dc dd de df dg dh di dj dk dl dm dn do dp dq dr ds dt du dv dw dx dy dz ea eb ec ed ee ef eg eh ei ej ek el em en eo ep eq er es et eu ev ew ex ey ez fa fb fc fd fe ff fg fh fi fj fk fl fm fn fo fp fq fr fs ft fu fv fw fx fy fz ga gb gc gd ge gf gg gh gi gj gk gl gm gn go gp gq gr gs gt gu gv gw gx gy gz ha hb hc hd he hf hg hh hi hj hk hl hm hn ho hp hq hr hs ht hu hv hw hx hy hz ia ib ic id ie if ig ih ii ij ik il im in io ip iq ir is it iu iv iw ix iy iz ja jb jc jd je jf jg jh ji jj jk jl jm jn jo jp jq jr js jt ju jv jw jx jy jz ka kb kc kd ke kf kg kh ki kj kl km kn ko kp kq kr ks kt ku kv kw kx ky kz la lb lc ld le lf lg lh li lj lk ll lm ln lo lp lq lr ls lt lu lv lw lx ly lz ma mb mc md me mf mg mh mi mj mk ml mn mo mp mq mr ms mt mu mv mw mx my mz na nb nc nd ne nf ng nh ni nj nk nl nm no np nq nr ns nt nu nv nw nx ny nz oa ob oc od oe of og oh oi oj ok ol om on oo op oq or os ot ou ov ow ox oy oz pa pb pc pd pe pf pg ph pi pj pk pl pm pn po pp pq pr ps pt pu pv pw px py pz qa qb qc qd qe qf qg qh qi qj qk ql qm qn qo qp qq qr qs qt qu qv qw qx qy qz ra rb rc rd re rf rg rh ri rj rk rl rm rn ro rp rq rr rs rt ru rv rw rx ry rz sa sb sc sd se sf sg sh si sj sk sl sm sn so sp sq sr ss st su sv sw sx sy sz ta tb tc td te tf tg th ti tj tk tl tm tn to tp tq tr ts tt tu tv tw tx ty tz ua ub uc ud ue uf ug uh ui uj uk ul um un oo up uq ur us ut uu uv uw ux uy uz va vb vc vd ve vf vg vh vi vj vk vl vm vn vo vp vq vr vs vt vu vw vx vy vz wa wb wc wd we wf wg wh wi wj wk wl wm wn wo wp wq wr ws wt wu ww wx wy wz xa xb xc xd xe xf xg xh xi xj xk xl xm xn xo xp xq xr xs xt xu xv xw xx xy xz ya yb yc yd ye yf yg yh yi yj yk yl ym yn yo yp yq yr ys yt yu yv yw yx yy yz za zb zc zd ze zf zg zh zi zj zk zl zm zn zo zp zq zr zs zt zu zv zw zx zy zz ^ a b c d e f g h i j k l m n o p q r s t u v w x y z aa ab ac ad ae af ag ah ai aj ak al am an ao ap aq ar as at au av aw ax ay az ba bb bc bd be bf bg bh bi bj bk bl bm bn bo bp bq br bs bt bu bv bw bx by bz ca cb cc cd ce cf cg ch ci cj ck cl cm cn co cp cq cr cs ct cu cv cw cx cy cz da db dc dd de df dg dh di dj dk dl dm dn do dp dq dr ds dt du dv dw dx dy dz ea eb ec ed ee ef eg eh ei ej ek el em en eo ep eq er es et eu ev ew ex ey ez fa fb fc fd fe ff fg fh fi fj fk fl fm fn fo fp fq fr fs ft fu fv fw fx fy fz ga gb gc gd ge gf gg gh gi gj gk gl gm gn go gp gq gr gs gt gu gv gw gx gy gz ha hb hc hd he hf hg hh hi hj hk hl hm hn ho hp hq hr hs ht hu hv hw hx hy hz ia ib ic id ie if ig ih ii ij ik il im in io ip iq ir is it iu iv iw ix iy iz ja jb jc jd je jf jg jh ji jj jk jl jm jn jo jp jq jr js jt ju jv jw jx jy jz ka kb kc kd ke kf kg kh ki kj kl km kn ko kp kq kr ks kt ku kv kw kx ky kz la lb lc ld le lf lg lh li lj lk ll lm ln lo lp lq lr ls lt lu lv lw lx ly lz ma mb mc md me mf mg mh mi mj mk ml mn mo mp mq mr ms mt mu mv mw mx my mz na nb nc nd ne nf ng nh ni nj nk nl nm no np nq nr ns nt nu nv nw nx ny nz oa ob oc od oe of og oh oi oj ok ol om on oo op oq or os ot ou ov ow ox oy oz pa pb pc pd pe pf pg ph pi pj pk pl pm pn po pp pq pr ps pt pu pv pw px py pz qa qb qc qd qe qf qg qh qi qj qk ql qm qn qo qp qq qr qs qt qu qv qw qx qy qz ra rb rc rd re rf rg rh ri rj rk rl rm rn ro rp rq rr rs rt ru rv rw rx ry rz sa sb sc sd se sf sg sh si sj sk sl sm sn so sp sq sr ss st su sv sw sx sy sz ta tb tc td te tf tg th ti tj tk tl tm tn to tp tq tr ts tt tu tv tw tx ty tz ua ub uc ud ue uf ug uh ui uj uk ul um un oo up uq ur us ut uu uv uw ux uy uz va vb vc vd ve vf vg vh vi vj vk vl vm vn vo vp vq vr vs vt vu vw vx vy vz wa wb wc wd we wf wg wh wi wj wk wl wm wn wo wp wq wr ws wt wu ww wx wy wz xa xb xc xd xe xf xg xh xi xj xk xl xm xn xo xp xq xr xs xt xu xv xw xx xy xz ya yb yc yd ye yf yg yh yi yj yk yl ym yn yo yp yq yr ys yt yu yv yw yx yy yz za zb zc zd ze zf zg zh zi zj zk zl zm zn zo zp zq zr zs zt zu zv zw zx zy zz ^ a b c d e f g h i j k l m n o p q r s t u v w x y z aa ab ac ad ae af ag ah ai aj ak al am an ao ap aq ar as at au av aw ax ay az ba bb bc bd be bf bg bh bi bj bk bl bm bn bo bp bq br bs bt bu bv bw bx by bz ca cb cc cd ce cf cg ch ci cj ck cl cm cn co cp cq cr cs ct cu cv cw cx cy cz da db dc dd de df dg dh di dj dk dl dm dn do dp dq dr ds dt du dv dw dx dy dz ea eb ec ed ee ef eg eh ei ej ek el em en eo ep eq er es et eu ev ew ex ey ez fa fb fc fd fe ff fg fh fi fj fk fl fm fn fo fp fq fr fs ft fu fv fw fx fy fz ga gb gc gd ge gf gg gh gi gj gk gl gm gn go gp gq gr gs gt gu gv gw gx gy gz ha hb hc hd he hf hg hh hi hj hk hl hm hn ho hp hq hr hs ht hu hv hw hx hy hz ia ib ic id ie if ig ih ii ij ik il im in io ip iq ir is it iu iv iw ix iy iz ja jb jc jd je jf jg jh ji jj jk jl jm jn jo jp jq jr js jt ju jv jw jx jy jz ka kb kc kd ke kf kg kh ki kj kl km kn ko kp kq kr ks kt ku kv kw kx ky kz la lb lc ld le lf lg lh li lj lk ll lm ln lo lp lq lr ls lt lu lv lw lx ly lz ma mb mc md me mf mg mh mi mj mk ml mn mo mp mq mr ms mt mu mv mw mx my mz na nb nc nd ne nf ng nh ni nj nk nl nm no np nq nr ns nt nu nv nw nx ny nz oa ob oc od oe of og oh oi oj ok ol om on oo op oq or os ot ou ov ow ox oy oz pa pb pc pd pe pf pg ph pi pj pk pl pm pn po pp pq pr ps pt pu pv pw px py pz qa qb qc qd qe qf qg qh qi qj qk ql qm qn qo qp qq qr qs qt qu qv qw qx qy qz ra rb rc rd re rf rg rh ri rj rk rl rm rn ro rp rq rr rs rt ru rv rw rx ry rz sa sb sc sd se sf sg sh si sj sk sl sm sn so sp sq sr ss st su sv sw sx sy sz ta tb tc td te tf tg th ti tj tk tl tm tn to tp tq tr ts tt tu tv tw tx ty tz ua ub uc ud ue uf ug uh ui uj uk ul um un oo up uq ur us ut uu uv uw ux uy uz va vb vc vd ve vf vg vh vi vj vk vl vm vn vo vp vq vr vs vt vu vw vx vy vz wa wb wc wd we wf wg wh wi wj wk wl wm wn wo wp wq wr ws wt wu ww wx wy wz xa xb xc xd xe xf xg xh xi xj xk xl xm xn xo xp xq xr xs xt xu xv xw xx xy xz ya yb yc yd ye yf yg yh yi yj yk yl ym yn yo yp yq yr ys yt yu yv yw yx yy yz za zb zc zd ze zf zg zh zi zj zk zl zm zn zo zp zq zr zs zt zu zv zw zx zy zz ^ a b c d e f g h i j k l m n o p q r s t u v w x y z aa ab ac ad ae af ag ah ai aj ak al am an ao ap aq ar as at au av aw ax ay az ba bb bc bd be bf bg bh bi bj bk bl bm bn bo bp bq br bs bt bu bv bw bx by bz ca cb cc cd ce cf cg ch ci cj ck cl cm cn co cp cq cr cs ct cu cv cw cx cy cz da db dc dd de df dg dh di dj dk dl dm dn do dp dq dr ds dt du dv dw dx dy dz ea eb ec ed ee ef eg eh ei ej ek el em en eo ep eq er es et eu ev ew ex ey ez fa fb fc fd fe ff fg fh fi fj fk fl fm fn fo fp fq fr fs ft fu fv fw fx fy fz ga gb gc gd ge gf gg gh gi gj gk gl gm gn go gp gq gr gs gt gu gv gw gx gy gz ha hb hc hd he hf hg hh hi hj hk hl hm hn ho hp hq hr hs ht hu hv hw hx hy hz ia ib ic id ie if ig ih ii ij ik il im in io ip iq ir is it iu iv iw ix iy iz ja jb jc jd je jf jg jh ji jj jk jl jm jn jo jp jq jr js jt ju jv jw jx jy jz ka kb kc kd ke kf kg kh ki kj kl km kn ko kp kq kr ks kt ku kv kw kx ky kz la lb lc ld le lf lg lh li lj lk ll lm ln lo lp lq lr ls lt lu lv lw lx ly lz ma mb mc md me mf mg mh mi mj mk ml mn mo mp mq mr ms mt mu mv mw mx my mz na nb nc nd ne nf ng nh ni nj nk nl nm no np nq nr ns nt nu nv nw nx ny nz oa ob oc od oe of og oh oi oj ok ol om on oo op oq or os ot ou ov ow ox oy oz pa