

7WhigvXi

5pL 'A%>B' 2L>%o-s-n ~, ^..Y%o' 2' ... %o%o Bp> L-ns-n ... A L} s- > TB> s- "L sL-BL HYL ", s%ađ sLH H>> } >ys-n s Hđ BÝ " N ^ B ~CL~ , ~> " } , HL %o%o> ^LřYsL >nL H>>%o%o, ~ "pL , "pL p>-H >nL >-nY>nL } , HL %o%o>CL HL } , ~%o>"LH pšnp ..L^N } >-BL >B, %o%o>s Y%hl, } >s-%o5pL^LN ^L s- "p%o%oL%o^Bp E L ... , ... %o> -LE H>>%o B> LH) ~ & 2' ", LCL^>nL "pL s-NL^L- > B>..>Ass L%oN>nL >-nY>nL } , HL %o%o ^ %oCs-n ' 2' 5pL ) ~ & 2' H>>%o s- ", HÝBLH s- "p%o%oYHđ B, ~%o%oN , ~L %o~L-BL HL%o%oAs-n >-L> } ...L s-..Y" đ >nL N, } ' 2' >-H TCL %o~L-BL%o Lđ...>s-s-n "pL ... , A L} %oCs-n ^Y L%o5pL đ >nL HL%o%o.. , ~%o~L-BL%o L^L } >-Y> ¥ B^L>"LH Ađ pY } >->đ pSL "pL ... , A L} %oCs-n ^Y L %o~L-BL%o L^L nL-L^>"LH Y%o%oN Ž/5 y 3YA%ođY L~" ¥ E L B ~HÝB^LH s-NL^L-BL >Ass¥ "L%o%oY%o%oN) ~ & 2' ", HL^L } s-L E pL "pL ^ p>Ž/5 >-H pY } >->B> %oLB" >... , ...s^L HL%o%o.. , ~%o%o ^ >nđL- đ >nL

ĉ igdYj Xi đc

' 2'

5pL 'A%>B , ~ >-H 2L>%o-s-n ~, ^..Y%o' 2' H>>%o E >%B^L>"LHN ^ "pL ..Y^... %o, N } L>%o~s-n "pL s-"L sL-BL , NB } ..Y^L^ %o%o%o } %o5p%o%o>">%o HL } >-H%o%oLL... "ps-y s-n >-H s-NL^L-BL A>%oH , ~ B } ..Lđ ...s ^ y~, E L HnL %oBp >%ođ >"pL } > B> >Ass L%o nL, } L^"sBÝ-HL^%o~Hs-n >-H", ... , nsB> B } ...LpL~%o~

& 2'

5pL & 2' H>>%o B ~%o%o NHL%o%o.. , ~%o%o ^ L>Bp , N^pL "s>s-s-n H>>N, } "pL , ^ns-> ' 2' H>>%o s-BÝHs-n HL%o%o.. , ~%oN^pL s-..Y" đ >nL%o~H HL%o%o.. , ~%o , N^pL ^Y L%oAL^E LL~ "pL s-..Y" >-H, Y" ..Y" đ >nL%o' Hts , ~> ¥ > B ~THL-BL ^> ~n sL } E >%oHHLH", s-HB>^L p, E B, ~THL~ "pL ...> Bs..>%o L^L s- "pL %o~L-BL%o^pL¥ ... , đHLH Ž, E LCL^ "pL , ^ns-> & 2' H>>%o p>%ođ s> , ~%o~ ... , đHs-n s-%o] Bđ~" s-N } > , ~N^... , A L} %oCs-n řY^"pL^ } , ^L "pL^L E L^L s-%o~BL%oNs^L LCL^>~ "Lđ ALs-n s-BÝHLH s- "pL HL%o%o.. , ~%o>%o%oL s- "pL LI HL%o%o.. , ~ , Nř sY^L } >ys-n "pL H>>Y~L s^AL 5pL^LN ^L "pL ... , A L} HL%o%o.. , ~ %oB , ~ , N& 2' E >%oLT-LH", B ~>s- } L>-s-nNÝ s-N } > , ~

HZhzVgX] dWZXi kZh

- Objective 1: ^L> ~n> -LE H>>%o ) ~ & 2' ", LCL^Y>L "pL s-NL^L-Bs-n>Ass¥, N^pL &&)
Objective 2: řLđ...>-Hs-n ' 2' ^L%o~Bp s-, "pL "Lđ H, } >s-

C 9#B7H9 : Vi VhZi

"~ , HL^", ... , ..L^ ¥ >%o%o%o pL s-NL^L-BL B>..>Ass L%oN&&) %ođ E >%oLBL%o%o¥", Lđ ...>-H s-NL^L-BL >Ass¥ LCL^Y> , ~ AL-Bp } >y H>>%o%o, "pL "Lđ H, } >s- 5pL^LN ^L s- "p%o%oYHđ E L ^>->^ } LH "pL ' 2' H>>%o E pđ B, YH , ~ ¥ AL ^L...L%o~LH s- / } >"sBL%o' đ >nL%o~", "pL ) ~ & 2' H>>%o >%o, N} Y ...L Bp, sBL řY L%o, ~%o s- "pL "Lđ H, } >s- 5pL ... , ... %oH) ~ & 2' %oAL-Bp } >y "p>" L%ođ A L&& 2' s- HL%o%oAs-n ' 2' ... , A L} %oAY" s- "pL N } , N} Y ...L Bp, sBL řY L%o, ~%o~BÝHs-n s-B ^LB" >-%oL^ Bp, sBL%o 3đ s>" , "pL , ^ns-> & 2' s s-BÝHL%o%oHL%o%o.. , ~%oNs-..Y" đ >nL%o~HLđ...>-> , ~%o , N... , A L} %oCs-n ^Y L%o5 >HHL%o%o pL %o%oL%o L~ , ~LH L^> đ E sp "pL , ^ns-> & 2' E L ^LT-LH "pL } "p, Ynp pY } >- LCL CL^sB> , ~ 5pL n, > E >%o, LCL^Y>L "pL s-NL^L- > >Ass¥, N>nL >-nY>nL } , HL %oAY%oCs-n "pL%o } Y ...L Bp, sBL řY L%o , ~%o%o...s-n "pL "Lđ nL-L^> , ~ ... , BL%o

"~..Y"/ L%o%o.. , ~

5 B^L>"L HL%o%o.. , ~%o%o ^ "pL s-..Y" đ >nL%o~ ) ~ & 2' E L B, ~HÝB^LH >^LT-L } L~ ... , BL%o%o ^ "pL %o~L-BL%oHL%o%oAs-n s-..Y" đ >nL%oN, } "pL Lđ%o~n & 2' s- %o~BL%o~ , HL^", ^ns, ^Y%o LCL^Y>L "pL } , HL %o~NL^L- > >Ass L%ođ L L~%o~LH "p>" pL HL%o%o.. , ~%o%o ^ s-..Y" đ >nL%o%oH~, " đ ...¥ "pL ^Y L%o~H E L ^LT-LH "pL %o~L-BL%oA>%oH , ~ TCL B^L^> color, object information, numerical details, geometry and topology, and common sense.

Diagram comparing LARC and MC-LARC input image descriptions. LARC: 'In the input, you should see... 5x11 grid.' MC-LARC: 'In the input, you should see... two pixels of different colors, horizontally aligned and positioned on the left and right sides.' Includes an 'EXAMPLE' showing a 5x11 grid with colored pixels.

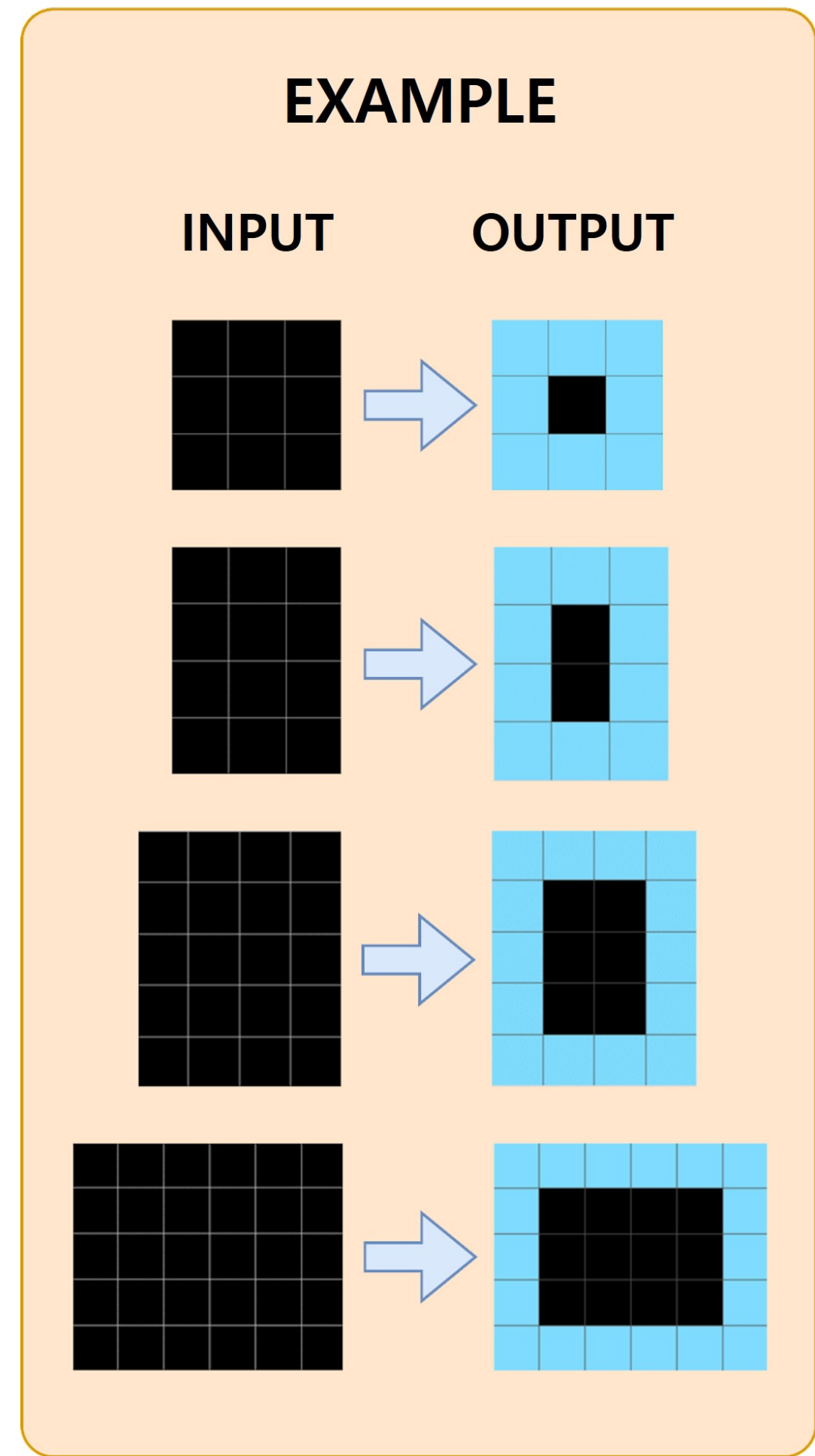
ř sY^L ... >%oH , ~ "pL s-..Y" đ >nL , N^pL Lđ } ...L ... , A L} AL, E s E >%o, HřLHN, } "pL , ^ns-> & 2' s-..Y" đ >nL HL%o%o.. , ~ ... , ...L " , "pL ) ~ & 2' s-..Y" đ >nL HL%o%o.. , ~ " , ...snp

) ~ & 2' , ... , ~%o

"~ nL-L^> ~n H%o%o>B", ^%o Y^ %oYHđ đ ... %oH "E, } >w^ B, ~%o>s-%o" "pL ... , } ... LCL

- ^LCL~ ~n, NSynonymous / %o>B", ^%o
~B ^... ^> , ~ , NBackground Knowledge >A, Y" ' 2' / >">%o

MC-LARC SOLUTION



- To make the output, you have to... create a light blue border around the grid. So, any squares that are touching the edges are filled in with light blue. The rest of the squares inside the light blue border remain black.
To make the output, you have to... fill all squares with black and then create a border in yellow. The space inside the yellow border remains black.
To make the output, you have to... create a red grid in the center, leaving a black border around the edges. The rest of the squares inside the red grid remain black.
To make the output, you have to... leave all squares black without creating any form of border.
To make the output, you have to... create a pattern within the grid using different colors. The edge color does not differ from the inner ones.

ř sY^L 5 Y đL "pL >nL >-nY>nL } , HL ^ p>Ž/5 y E L >Yn) L~LH%o~L-BL%o~%oL%o~ "pL ^LT-LH & 2' E sp NY^ >Hts , ~> H%o>B, ^ %o~L-BL%o%o>" >L %ođ s> s-%oYBÝ^L AY^ B } ...L^L ¥ HQL^L- s- } L>-s-n >%o%o E - s- ^LH...>

HZhj ah

5>AL 5pL " } >nL ^..Y^ HL%o%o.. , ~ >-H " } >nL %o E "pL >BBÝ^BÝ ^L%o~%oCs-n řY L%o, ~%o%o s-đ, CL %oLB -n %oY , ~%o%o "pL ' 2' AY... , đHs-n "pL ) ~ & 2' H>>%o 5pL , ^ns-> ' 2' H>> %o E %o pL >BBÝ^BÝ ^L%ođ pL-HSLB ¥ } , HÝB^s-n "pL ' 2' %o/ } >"sBL%o

Table with 4 columns: Image + Input description, Image, Original ARC data. Row 1: ^ p>Ž/5 (84.25%), (79.00%), (9.625%). Row 2: Ž/5

5>AL 5p%o%o pL "L%o", N^pL ) ~ & 2' H>>%o Lđ L^> L~" B ~HÝB^LH , ~ pY } >->5pL Hđ BÝ ^¥ LCL %ođ L^L } >yLH N, } " , ~ >-H "pL ^> , N(# of correctly answered / # of questions) %o..L%o~LH

Table with 6 columns: / đ BÝ ^¥, 1, 2, 3, 4, 5. Row 1: (96.1%), (89.2%), (93%), (92.7%), (60%)

: ĩXj hh^đc

- 5pL , ^ns-> ' 2' ... , A L} B, YH~, " >Bpđ CL pšnp >BBÝ^BÝ Y%o%o n^ p>Ž/5 ALB>Y%o s^ p>H", AL } , HřLH HSLB" ¥", "pL ' 2' H>>%o Ž, E LCL^ "pL ) ~ & 2' H>>%o H^>%oB> ¥ ^LHÝBLH "pL Hđ BÝ ^¥, N^pL ... , A L} Ađ Bp>-ns-n "pL ... , A L} ", > } Y ...L Bp, sBL ... , A L} E s p "pL B, ^LB" >-%oL^ >-H >BÝ^ ¥ %o E LH CL ^ ¥ pšnp >BBÝ^BÝ
"" %o, " ... , %oAL ", y~, E N, } "p%ođL%o" %ođ pL "pL ^ "pL &&) >BÝ^ ¥ Y đLH s%o ^L>%o~s-n >Ass¥ >-H %o CLH "pL ... , A L} "p, Ynp >... , ...s^L %o..%o5pL^LN ^L >Hts , ~> ^L%o~Bp %oLLHLH s- "p%ođLn>H
& , ys-n> 5>AL >-H 5>AL "pL ) ~ & 2' H>>%o %o~ L>%oH>>%o N^ A, "p &&) %o~H pY } >->%o~ "pL B>%o, N^ p>Ž/5 s^ %o E LH >- >BBÝ^BÝ , N>A, Y" >-H s- "pL B>%o, NpY } >->%o %o E LH >- >BBÝ^BÝ , N>A, Y"
2L%o~Bp , ~ đ ... , Cs-n "pL Hđ BÝ ^¥, N^pL ) ~ & 2' H>>%o E s AL ~LLHLH s- "pL NÝ^L

9dcXaj h^đc

- Proposal of MC-LARC Dataset focusing on Reasoning Capabilities ř Y ...L Bp, sBL řY L%o, ~H>>%o ) ~ & 2' E >%o., ... %oH", LCL^Y>L ^L>%o~s-n B>..>Ass L%oN&&)
Transformation of ARC Problem 5pL %oYHđ ^>->^ } LH "pL ' 2' ... , A L} N, } >- đ >nL s-NL^L-BL %o%oL", >"Lđ đ >nL s-NL^L-BL ... , A L}
Reliability Issues with LARC Dataset 5pL^L E L^L B, ~BL^~%oA, Y" "pL ^L sAss¥ , N^pL & 2' H>>%o E pđ B E >%o%oH", B^L>L ) ~ & 2'
Contribution to AGI ) ~ & 2' >L Lđ..LB^LH", B, ~^sAY^L", đL~ Ns-n "pL %ođ n^p%ođ E y~L%o%o~H đ s> , ~%oN >nL >-nY>nL } , HL %o~ "pL B, ~Lđ , N^ TB> Ž L-L^> "L sL-BL ^ Ž"